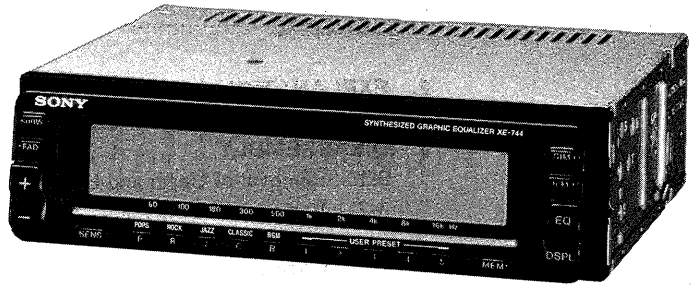
XE-744

SERVICE MANUAL

US Model
Canadian Model
E Model



SPECIFICATIONS

Center frequencies	60 Hz, 100 Hz, 180 Hz, 300 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz 16 kHz
Boost/cut range	± 12 dB
Subwoofer LPF	Cutoff frequencies 70 Hz, 100 Hz, 300 Hz Slope –18 dB/oct
Frequency response	5 Hz – 50 kHz ($^{+0}_{-3}$ dB)
Signal to noise ratio	more than 100 dB
Distortion	0.008%
Gain	0 dB
Input	Line input RCA pin jacks
Output	Line output RCA pin jacks
Power supply	12 V DC car battery (Negative ground)
Current drain	0.6 A
Dimensions	Approx. 178 × 50 × 155 mm ($7^1/_8 \times 2 \times 6^1/_8$ in.) (w/h/d) not incl. projecting parts and controls
Mounting dimensions	Approx. 182 × 53 × 142 mm ($7^1/_4 \times 2^1/_8 \times 5^5/_8$ in.) (w/h/d) not incl. projecting parts and controls
Mass	Approx. 0.8 kg (1 lb. 12 oz.)
Supplied accessories	Mounting hardware (1 set) Power connecting leads (1)
Optional accessories	RCA pin cord RC-63 (1 m), RC-64 (2 m), RC-65 (5 m)

Design and specifications subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents

STEREO GRAPHIC EQUALIZER

SONY®

Features

This unit incorporates a 10 band graphic equalizer and a spectrumanalyzer. It is also equipped with subwoofer outputs for the reproduction of rich deep bass sound.

Spectrum analyzer display

- 10 band spectrum analyzer for displaying the variable input audio signal level in real time.
- Provided with seven spectrum analyzer display patterns.
- Large three colored LCD display.

Graphic equalizer function

- 10 band graphic equalizer enables precision adjustments of the tone quality.
- Original preset equalizer sound-curves from POPS, ROCK, JAZZ, CLASSIC and BGM (background music) can be selected with a touch of a button to suit the kind of music you are playing.
- User's memory function for memorizing up to five customized equalizer sound-curves.

Others

- Switchable LPF (low-pass filter) to suit the frequency response of the optional subwoofer(s).
- Output level can be selected at each LPF frequency.
- Color of the illumination for the operational buttons can be selected either from amber or green to match the surroundings.
- The brightness of the display can be changed in two levels with the dimmer switch for day time or night time use.

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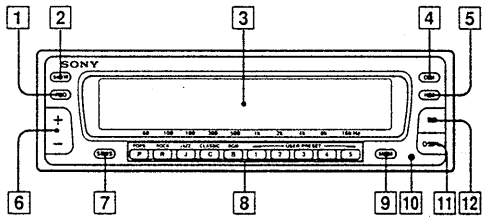
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Location and Function of Controls



See the pages in ● for details.

1 **FAD (fader control) button ⑯**
Note
Ensure to set the fader control of the connected master unit to the center position.

2 **SUB W (subwoofer LPF* frequency select/level adjust mode) button ⑮**
You can select the LPF frequency of the subwoofer's output.
Each time you press the button, the LPF frequency changes as follows:

→ 70 Hz → subwoofer output off → 300 Hz → 100 Hz →

* Low-pass filter

3 **Display window**

4 **DIM (dimmer) button**
You can select the brightness of the display window according to the surroundings.
Each time you press the button, the brightness of the display window changes as follows:
dark → bright → dark

5 **ILM (illumination select) button**
You can select the color of the illumination of the operational buttons either from amber or green to suit the illumination color of your master unit.
Each time you press the button, the color changes as follows:
green → amber → green

6 **+/– (level adjust) button**

7 **SENS (spectrum analyzer sensitivity adjust) button ⑭**

8 **Equalizer sound-curve preset*/ frequency select buttons ⑧⑪⑫**
* The buttons P – B are the factory-set original preset buttons and the buttons 1 – 5 are user preset buttons.

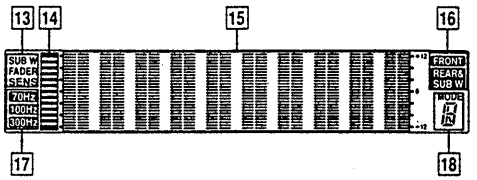
9 **MEM (equalizer sound-curve mode set) button ⑧**

10 **Reset button**
Press this button with a pall point pen etc. when the buttons of the unit fail to function.

11 **DSPL (spectrum analyzer display pattern select) button ⑬**

12 **EQ (equalizer output select) button ⑦**

Display window



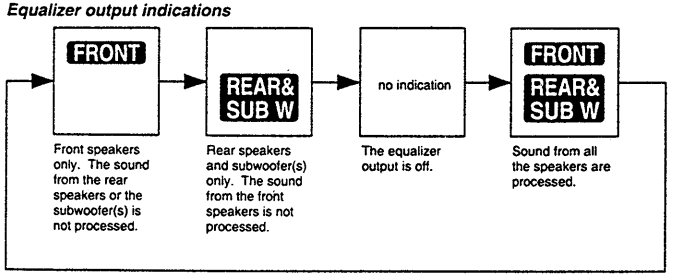
13 **Adjustment mode display section**
14 **Subwoofer output level/level adjustment mode display section**
15 **Spectrum analyzer/equalizer sound-curve display section**
16 **Equalizer output display section**
17 **Subwoofer LPF frequency display section**
18 **Equalizer sound-curve mode display section**

Selecting the Equalizer Output

You can select the output speakers for the audio signal to be processed by the graphic equalizer.

Each time you press the EQ button, the output speakers change as follows:

Equalizer output indications


FRONT
REAR&
SUB W
no indication
FRONT
REAR&
SUB W
Front speakers only. The sound from the rear speakers or the subwoofer(s) is not processed.
Rear speakers and subwoofer(s) only. The sound from the front speakers is not processed.
The equalizer output is off.
Sound from all the speakers are processed.

Muting the Beep Tone

Press the FAD button while pressing down the P button. To obtain the beep tone again, press these buttons once more.

This section is extracted from instruction manual.

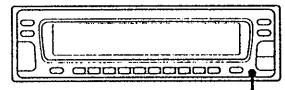
Connections

Cautions

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** power input lead only after all other leads are connected, and be sure to connect it to the positive 12 V power terminal which is energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

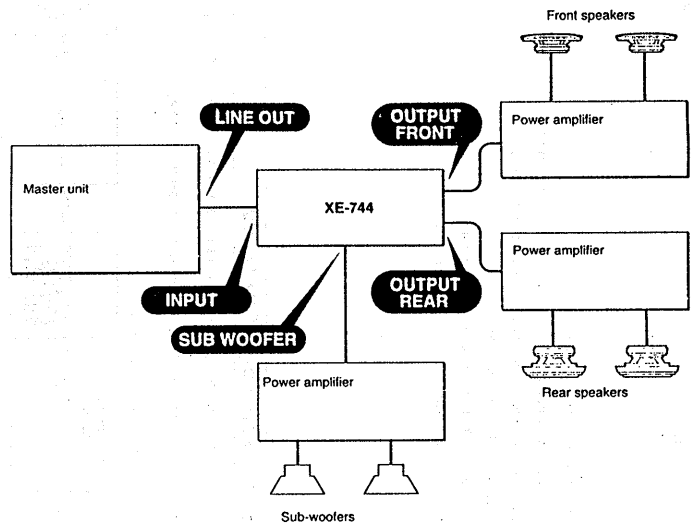
Reset Button

When the installation and connections are over, be sure to press the reset button with a ball-point pen etc. The reset button is located on the bottom right side of the display window.

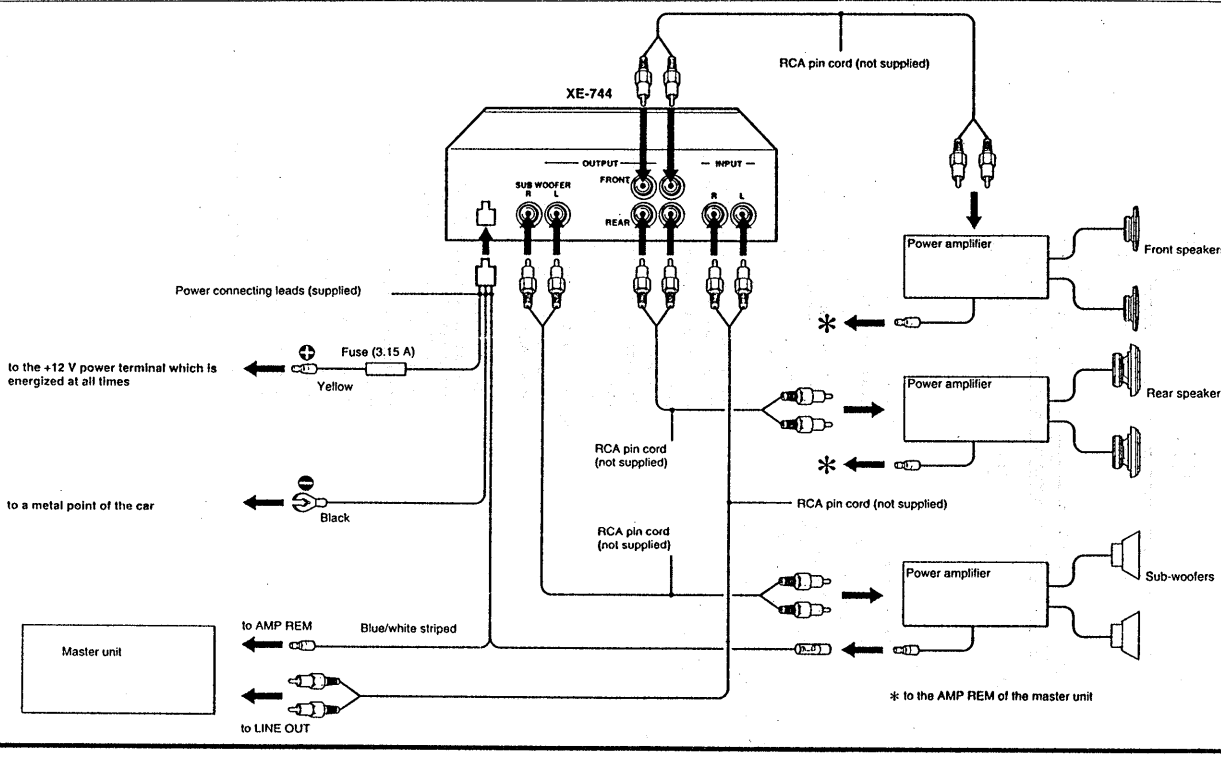


Connection Diagram

Example 1



Connection of Example 1



Connecting leads
Yellow: Power input lead
Blue/white striped: Amplifier remote control lead
Black: Ground wire

Notes
- Be sure to set the fader control of the master unit to the center position when using this unit.
- For more information about the connections, refer to the installation/connections manual supplied to the master unit.

SECTION 2
EXPLANATION OF IC TERMINALS

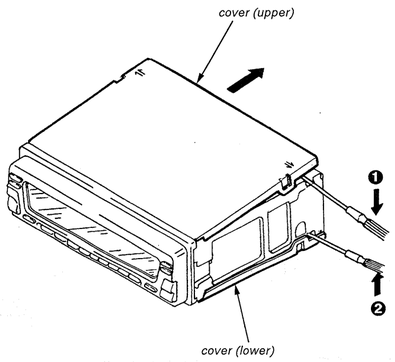
IC501 μ PD75516GF-488-3B9

Terminal No.	Nama of Terminal	Name of Function	I / O	Function
1	AN0	SP10	I	SUBW level input
2	AVREF	——	I	Analog reference voltage
3	VDD	——	–	Power source (+5V)
4	VDD	——	–	Power source (+5V)
5	P113	SPSEL1	O	Spectrum analyzer level switching output 1
6	P112	SPSEL2	O	Spectrum analyzer level switching output 2
7	P111	REAR	O	EQ REAR ON / OFF output H → OFF L → ON
8	P110	FRONT	O	EQ FRONT ON / OFF output H → OFF L → ON
9	P103	SENS	O	Spectrum analyzer sensibility switching output H → Hight L → Low
10	P102	EQCS	O	EQ VOL CE output
11	P101	EQDI	O	EQ VOL DATA output
12	P100	EQCLK	O	EQ VOL CLK output
13	P93	VRSTB2	O	FADER VOL STB output
14	P92	VRSTB1	O	SUBW VOL STB output
15	P91	VRDATA	O	VOL DATA output
16	P90	VRCLK	O	VOL CLK output
17	S11 / P83	——	I	Not used (GND)
18	S01 / P82	LCD DATA	O	LCD DATA output
19	SCK / P81	LCD CLK	O	LCD CLK output
20	PP0 / P80	——	I	Not used (GND)
21	KR7 / P73	MUTE	O	Mute output
22	KR6 / P72	——	O	Not used (Open)
23	KR5 / P71	LPF1	O	LPF switching output 1
24	KR4 / P70	LPF0	O	LPF switching output 0
25	KR3 / P63	KI3	I	Key input 3 (Software pull-up built-in assignment)
26	KR2 / P62	KI2	I	Key input 2 (Software pull-up built-in assignment)
27	KR1 / P61	KI1	I	Key input 1 (Software pull-up built-in assignment)
28	KR0 / P60	KI0	I	Key input 0 (Software pull-up built-in assignment)
29	P53	——	O	Not used (Open)
30	P52	——	O	Not used (Open)
31	P51	——	O	Not used (Open)
32	P50	K04	O	Key output 4
33	Vss	——	O	GND
34	P43	K03	O	Key output 3
35	P42	K02	O	Key output 2
36	P41	K01	O	Key output 1
37	P40	K00	O	Key output 0
38	P33	——	O	Not used (Open)
39	P32	LCD INH	O	LCD INH output
40	P31	LCD CE2	O	LCD CE2 output

SECTION 3
DISASSEMBLY

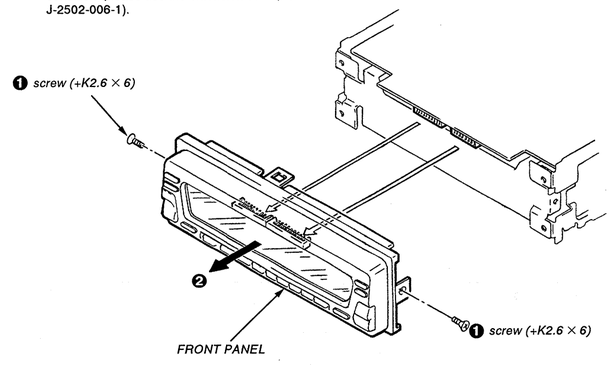
Note : Follow the disassembly procedure in the numerical order given.

REMOVAL OF UPPER AND LOWER COVER



REMOVAL OF FRONT PANEL

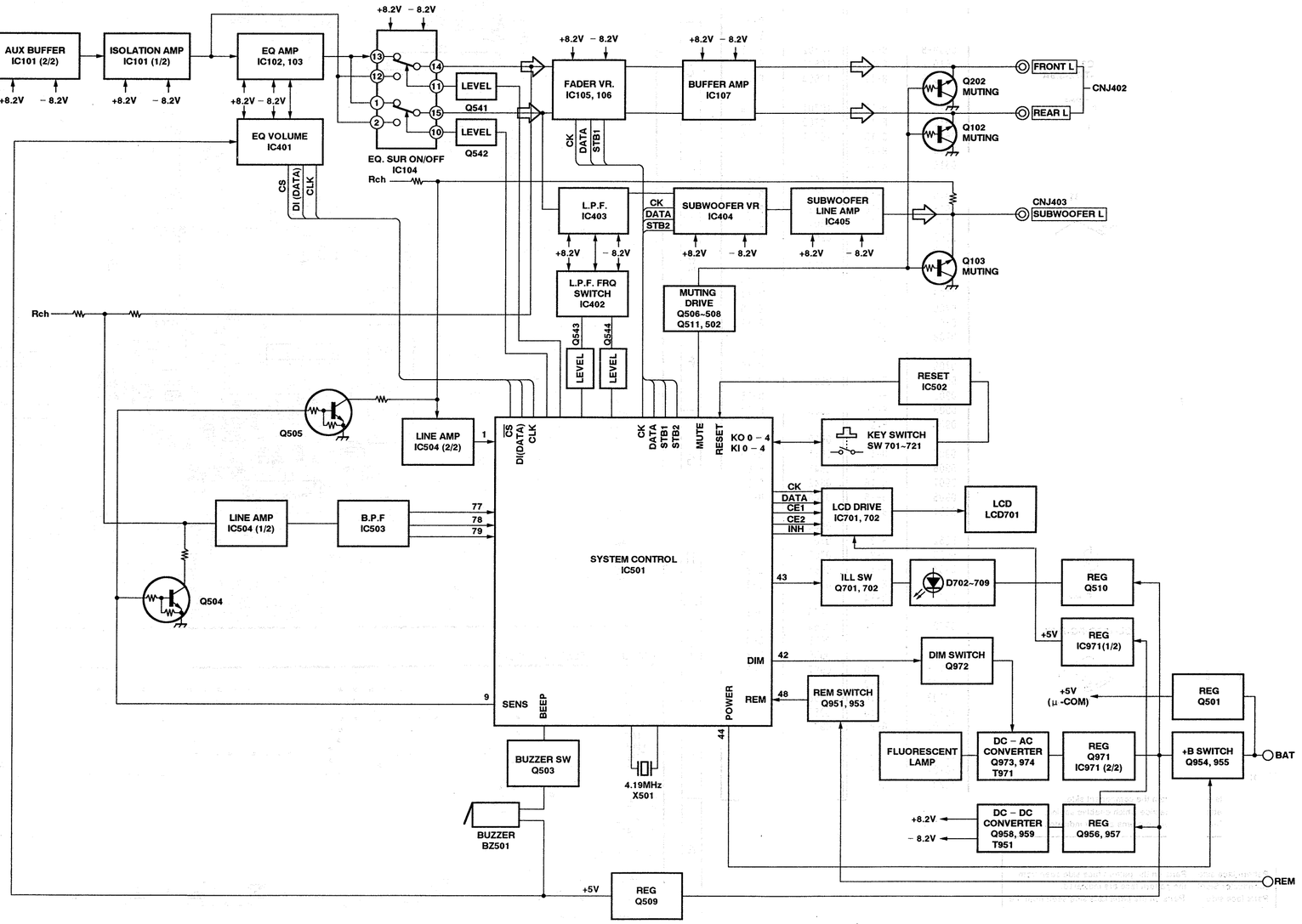
In order to operate with the front panel in removed condition, please use the extension cord (Part No. J-2502-006-1).



Terminal No.	Name of Terminal	Name of Function	I / O	Function
41	P30	LCD CE1	O	LCD CE1 output
42	P23 / BUZ	DIMMER	O	Dimmer switching output H → Dark L → Bright
43	P22 / PCL	ILL	O	Illumination switching output H → High L → Low
44	P21	POWER	O	System power output H → ON L → OFF
45	P20 / PT00	BEEP	O	Buzzer output
46	P13 / T10	PHOTO	I	Photographing mode setting input H → Setting ON L → Setting OFF
47	P12 / INT2	TEST	I	Test mode setting input H → Setting ON L → Setting OFF
48	P11 / INT1	REMOTE	I	Remote control input H → ON L → OFF
49	P10 / INT0	——	I	Not used (GND)
50	P03 / S10 / SB1	——	I	Not used (GND)
51	P02 / S00 / SB0	——	I	Not used (GND)
52	P01 / SCK0	——	I	Not used (GND)
53	P00 / INT4	——	I	Not used (GND)
54	Vss	——	–	GND
55	XT1	——	I	Not used (GND)
56	XT2	——	–	Not used (Open)
57	IC	——	–	GND
58	X1	——	–	Main system clock oscillation 4.19MHz
59	X2	——	–	Main system clock oscillation 4.19MHz
60	RESET	RESET	I	Reset input
61	P143	——	O	Not used (Open)
62	P142	——	O	Not used (Open)
63	P141	——	O	Not used (Open)
64	P140	——	O	Not used (Open)
65	P133	——	O	Not used (Open)
66	P132	——	O	Not used (Open)
67	P131	——	O	Not used (Open)
68	P130	——	O	Not used (Open)
69	P123	——	O	Not used (Open)
70	P122	——	O	Not used (Open)
71	P121	——	O	Not used (Open)
72	P120	——	O	Not used (Open)
73	AVss	——	–	Analog GND
74	AN7 / P153	——	I	Not used (GND)
75	AN6 / P152	——	I	Not used (GND)
76	AN5 / P151	——	I	Not used (GND)
77	AN4 / P150	SPI 4	I	Spectrum analyzer level input 3 (4k / 8k / 16kHz)
78	AN3	SPI 3	I	Spectrum analyzer level input 2 (300 / 500 / 1k / 2kHz)
79	AN2	SPI 2	I	Spectrum analyzer level input 1(60 / 100kHz)
80	AN1	SPI 1	I	Not used (GND)

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM



● Semiconductor Lead Layouts

S-8052HNM-CR-S

2SD1858-Q-TV2

2SA473
2SD2012
2SK303V4-TA

1SS176
HZS6B1LTD
HZS7A1LTD
HZS9C3L
MTZJ-T-72-3.9A

2SA1162
2SC2712-G
DTC343TK
RN1402
RN1405-TE85L
RN2402

1SS181

10E2

2SB1188-Q

11EQS04
HZS9B1L
RD15ES-B1
RD18ES-B1
RD5.1ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD6.8ES-B2

2SC3303-Y

2SD1664-Q-T100

CL-155G/PG-D-TL

Note:

- ○—: parts extracted from the component side.
- ▒▒▒: Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

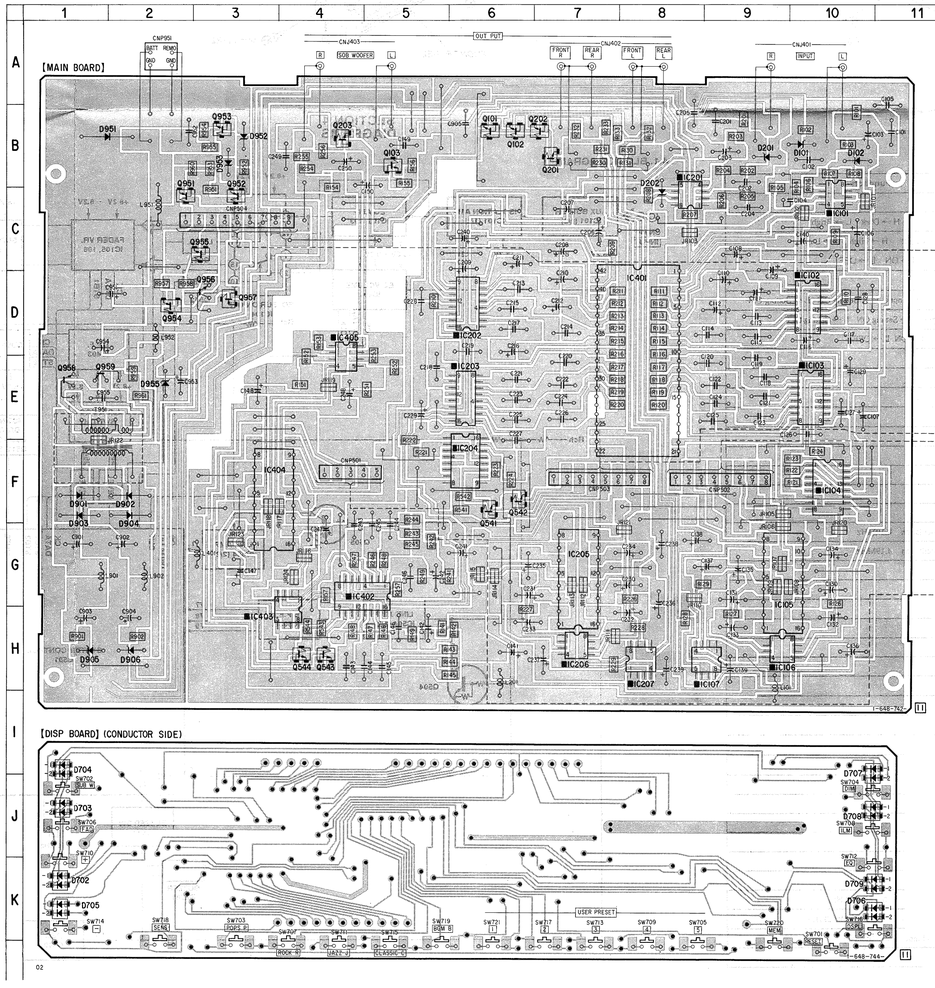
Caution :

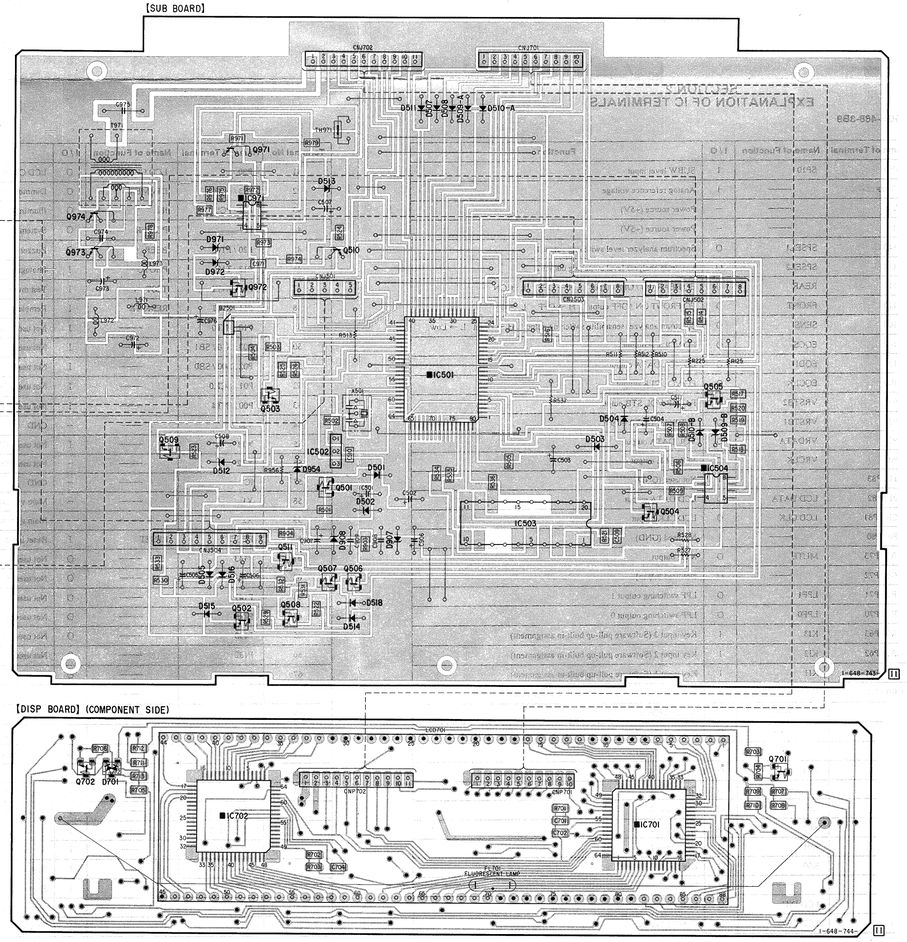
Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.

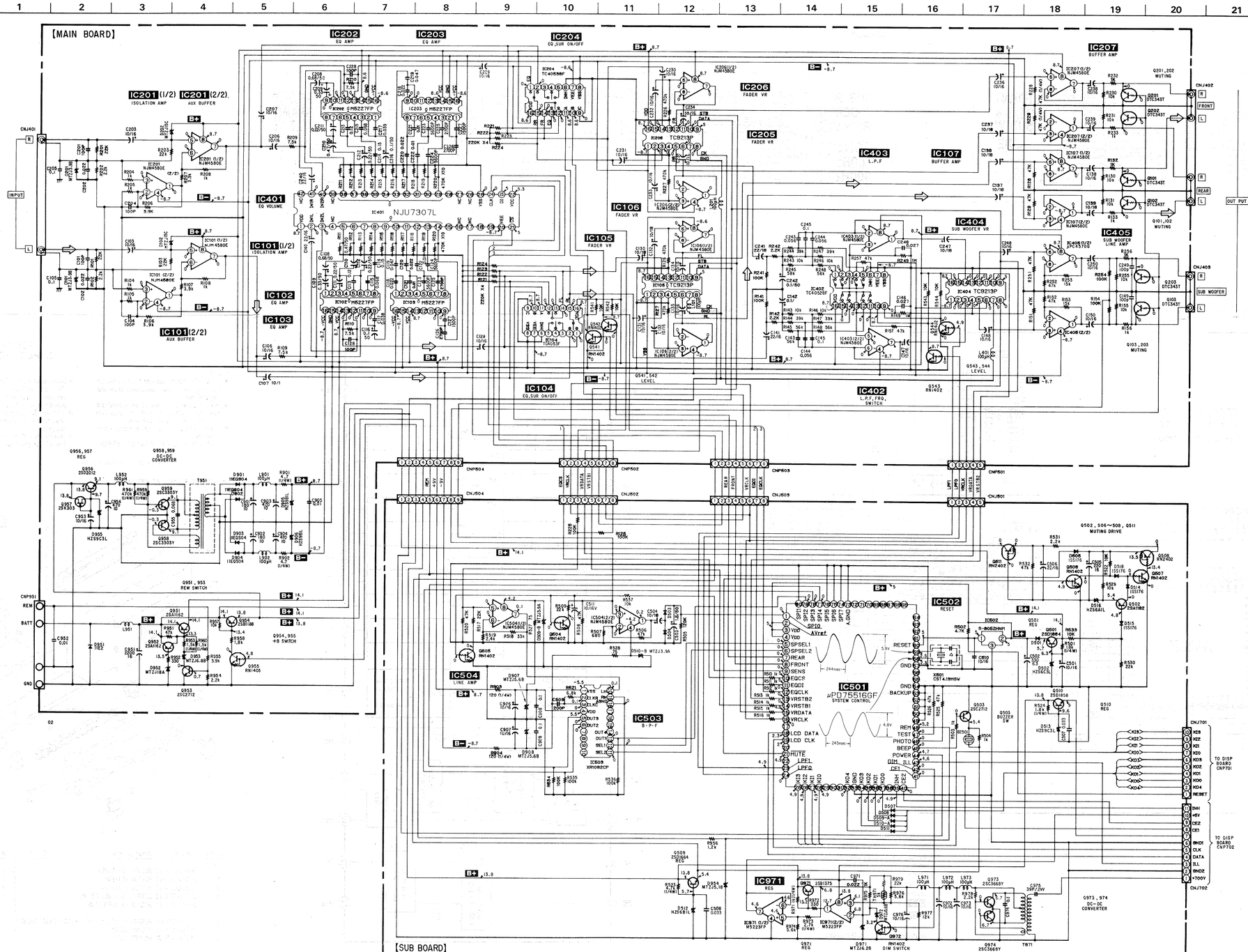
● SEMICONDUCTOR LOCATION

Ref. No	Location	Ref. No	Location
D101	B-10	IC202	D-6
D102	B-10	IC203	E-6
D201	B-9	IC204	F-6
D202	C-8	IC205	G-7
D501	F-16	IC206	H-7
D502	G-16	IC207	H-8
D503	F-19	IC401	D-8
D504	F-19	IC402	G-4
D505	G-14	IC403	H-4
D507	B-17	IC404	F-3
D508	B-17	IC405	D-4
D509-A	D-20	IC501	E-17
D509-B	B-17	IC502	F-15
D510-A	D-20	IC503	G-18
D510-B	B-17	IC504	F-20
D511	B-17	IC701	J-19
D512	F-14	IC702	J-14
D513	C-15	IC971	C-15
D514	H-16		
D515	H-14		
		Q101	B-6
D516	G-14	Q102	B-6
D518	H-16	Q103	B-5
D701	J-13	Q201	B-7
D702	K-1	Q202	B-7
D703	J-1		
		Q203	B-4
D704	I-1	Q501	F-15
D705	K-1	Q502	H-14
D706	K-10	Q503	E-15
D707	J-10	Q504	G-19
D708	J-10		
		Q505	E-20
D709	K-10	Q506	H-16
D901	F-1	Q507	H-15
D902	F-2	Q508	H-15
D903	F-1	Q509	F-14
D904	F-2		
		Q510	D-16
D905	H-1	Q511	H-15
D906	H-2	Q541	F-6
D907	G-16	Q542	F-6
D908	G-15	Q543	H-4
D951	B-1		
		Q544	H-4
D952	B-3	Q701	J-21
D953	B-2	Q702	J-13
D954	F-15	Q951	C-2
D955	E-2	Q952	C-3
D971	D-14		
		Q953	B-3
D972	D-14	Q954	D-2
		Q955	D-3
		Q956	D-3
IC101	C-10	Q957	D-3
IC102	D-10		
IC103	E-10	Q958	E-1
IC104	F-10	Q959	E-1
IC105	G-9	Q971	B-14
		Q972	D-14
IC106	H-9	Q973	D-13
IC107	H-9		
IC201	C-8	Q974	C-13

4-2. PRINTED WIRING BOARDS





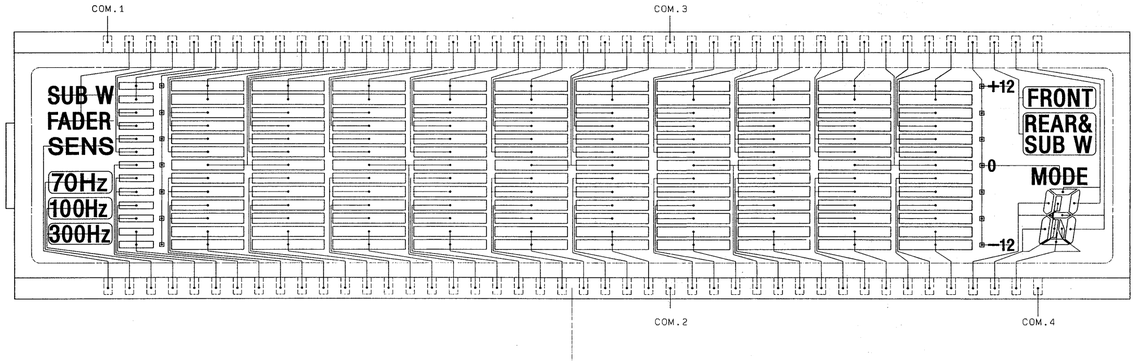


Note :

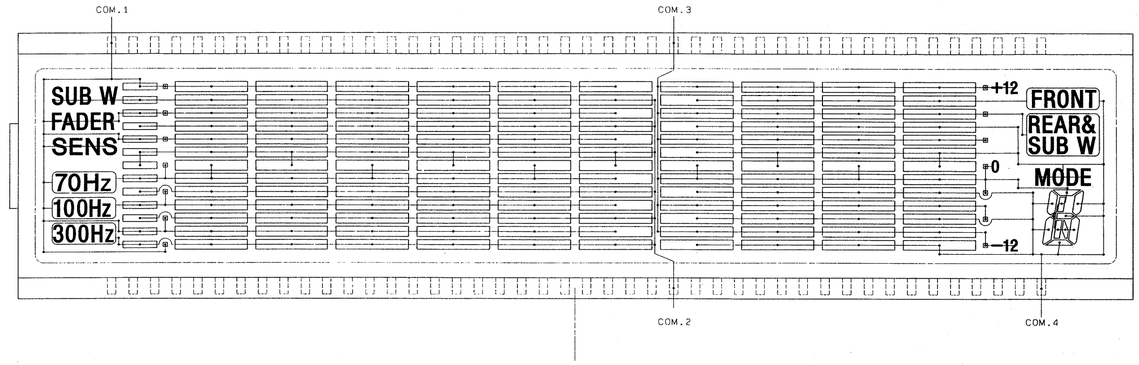
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.
- **B+** : B+ Line
- **B−** : B − Line
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and REM terminals.
- Voltage is dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : AUDIO

● FLUORESCENT

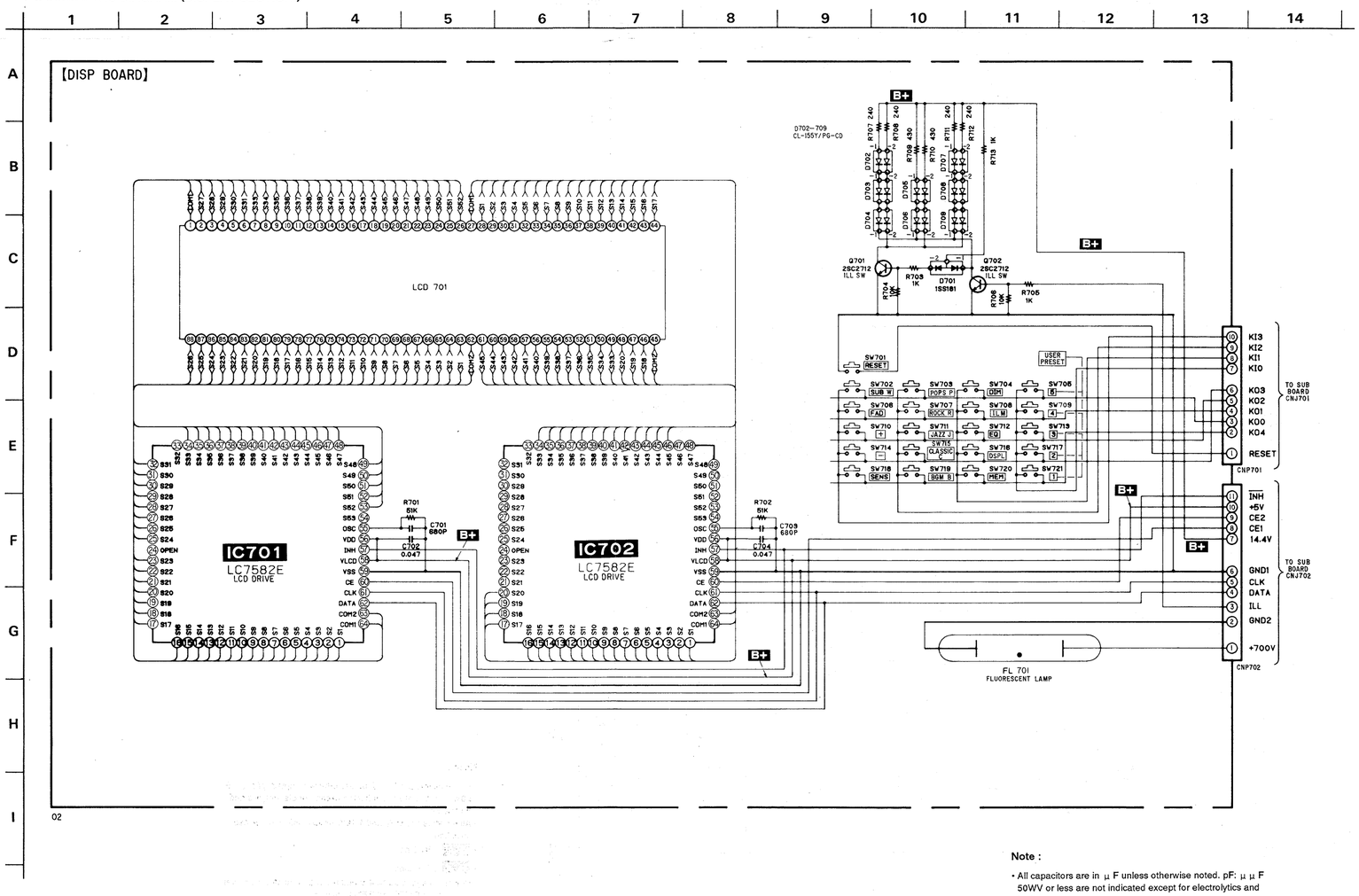
• SEGMENT



• COMMON



4-4. SCHEMATIC DIAGRAM (DISPLAY SECTION)



Note :

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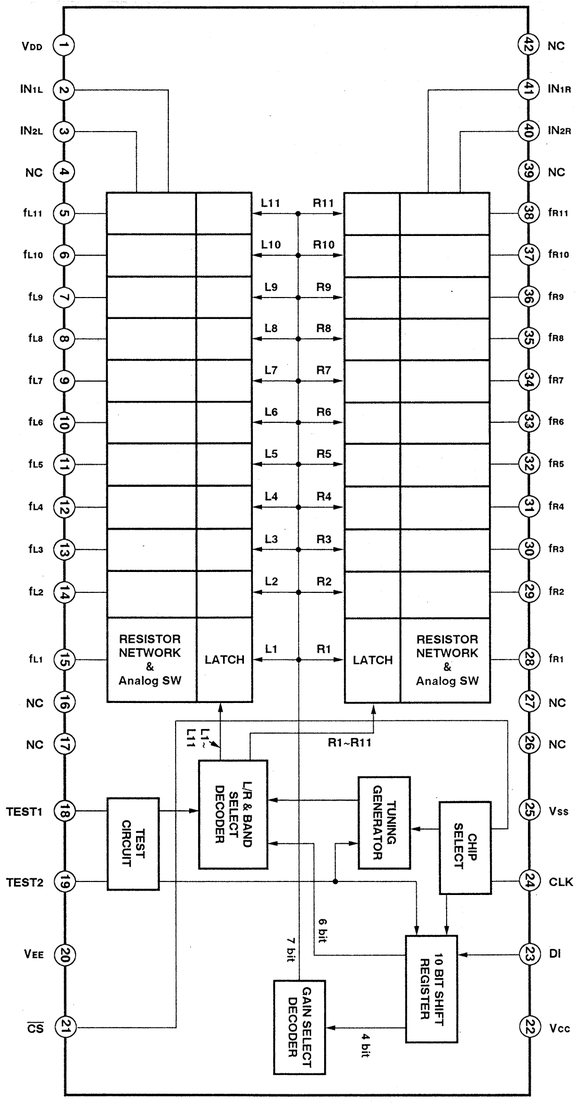
- All resistors are in Ω and 1/10W or less unless otherwise specified.
- **B+** : B+ Line
- **B−** : B − Line
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and REM terminals.

● IC BLOCK DIAGRAM

• NJU7307L (IC401)

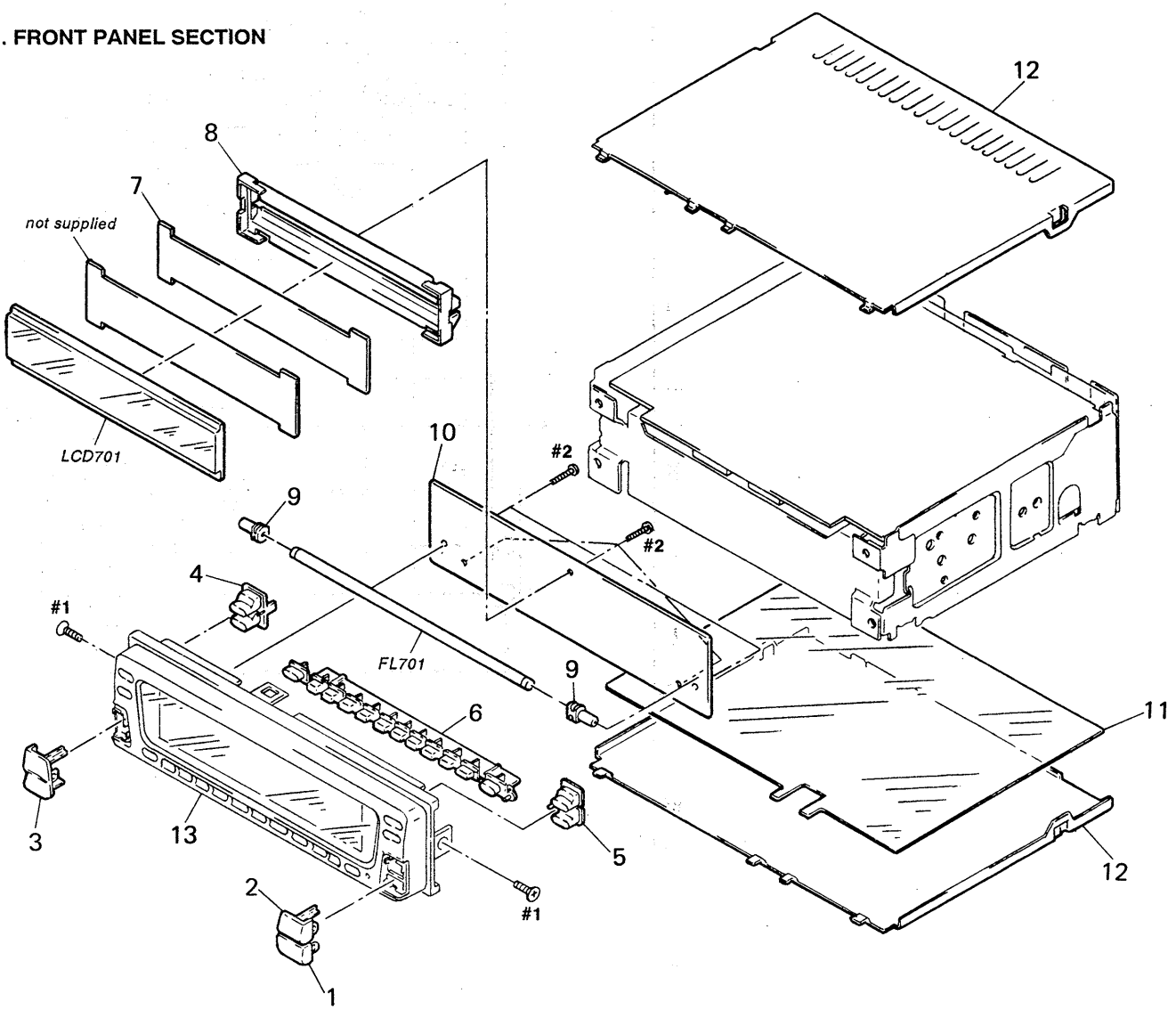


SECTION 5
EXPLODED VIEWS

NOTE :

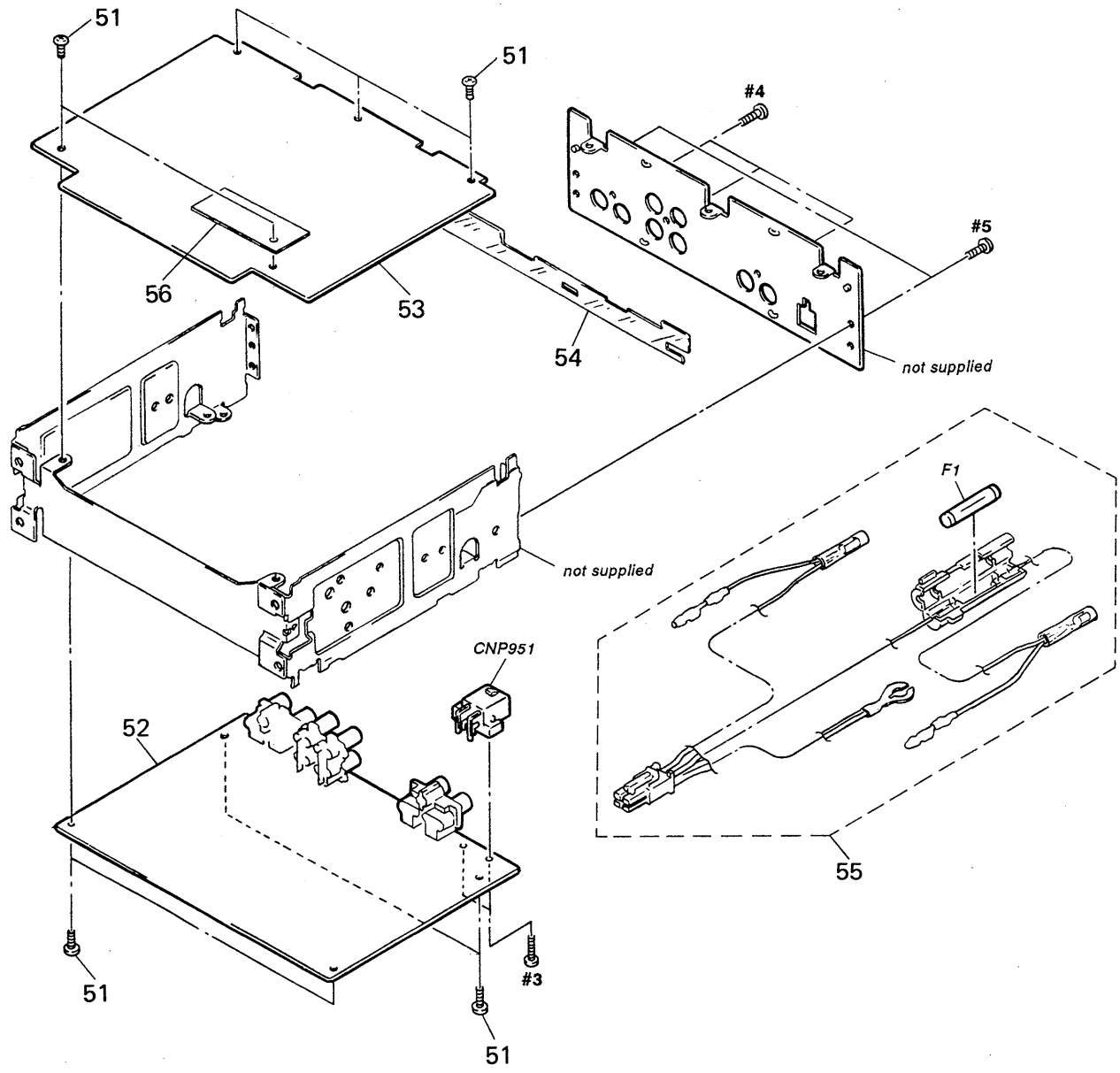
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example :
  KNOB, BALANCE (WHITE)....(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark)list is given in the last of this parts list.

5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	3-388-574-12	BUTTON (D) (DSPL)	
2	3-388-574-12	BUTTON (C) (EQ)	
3	3-388-574-12	BUTTON (C) (+/-)	
4	3-388-573-12	BUTTON (B) (FAD/SUB W)	
5	3-388-572-11	BUTTON (A) (DIM/ILM)	
6	3-388-577-01	BUTTON (F) (EQUALIZER SOUND-CURVE PRESET)	
* 7	3-389-478-01	ILLUMINATOR	
* 8	3-388-579-02	HOLDER (LCD)	
* 9	3-388-585-01	BUSHING	
* 10	A-3295-742-A	DISP BOARD, COMPLETE	
* 11	3-344-560-81	INSULATOR (3)	
* 12	3-332-151-01	COVER	
13	X-3367-055-1	PANEL ASSY (S), FRONT	
LCD701	1-810-119-11	DISPLAY PANEL, LIQUID CRYSTAL	
FL701	1-517-187-11	LAMP, FLUORESCENT	

5-2. CABINET SECTION



Ref. No.	Part No.	Description	Remark
51	3-344-501-11	SCREW (+PTT 3X8), GROUND POINT	
* 52	A-3295-621-A	MAIN BOARD, COMPLETE	
* 53	A-3295-622-A	SUB BOARD, COMPLETE	
* 54	3-389-822-01	COVER (REAR)	

Ref. No.	Part No.	Description	Remark
55	1-696-710-11	CORD (WITH CONNECTOR)	
* 56	3-389-820-01	SHEET (A), INSULATING	
* CNP951	1-691-785-11	PIN, CONNECTOR (PC BOARD) 4P	
F1	1-532-419-11	FUSE, GLASSTUBE (3.15A/125V)	

DISP

SECTION 6
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-3295-742-A	DISP BOARD, COMPLETE			
		**********			
*	3-388-579-02	HOLDER (LCD)			
*	3-388-585-01	BUSHING			
*	3-389-478-01	ILLUMINATOR			
	7-685-104-19	SCREW +P 2X6 TYPE2 SLIT			
		< CAPACITOR >			
C701	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C702	1-164-493-11	CERAMIC CHIP	0.047uF	10%	50V
C703	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C704	1-164-493-11	CERAMIC CHIP	0.047uF	10%	50V
		< CONNECTOR >			
* CNP701	1-750-791-11	PIN, CONNECTOR			
* CNP702	1-750-791-21	PIN, CONNECTOR			
		< DIODE >			
D701	8-719-820-05	DIODE 1SS181			
D702-709					
	8-719-987-45	DIODE CL-155Y/PG-CD			
		< FLUORESCENT LAMP >			
FL701	1-517-187-11	LAMP, FLUORESCENT			
		< IC >			
IC701	8-759-171-25	IC LC7582E			
IC702	8-759-171-25	IC LC7582E			
		< LIQUID CRYSTAL DISPLAY >			
LCD701	1-810-119-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q701	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q702	8-729-230-49	TRANSISTOR 2SC2712-YG			

Ref.No.	Part No.	Description			Remark
		< RESISTOR >			
R701	1-216-090-00	METAL CHIP	51K	5%	1/10W
R702	1-216-090-00	METAL CHIP	51K	5%	1/10W
R703	1-216-049-00	METAL CHIP	1K	5%	1/10W
R704	1-216-073-00	METAL CHIP	10K	5%	1/10W
R705	1-216-049-00	METAL CHIP	1K	5%	1/10W
R706	1-216-073-00	METAL CHIP	10K	5%	1/10W
R707	1-216-034-00	METAL CHIP	240	5%	1/10W
R708	1-216-034-00	METAL CHIP	240	5%	1/10W
R709	1-216-040-00	METAL GLAZE	430	5%	1/10W
R710	1-216-040-00	METAL GLAZE	430	5%	1/10W
R711	1-216-034-00	METAL CHIP	240	5%	1/10W
R712	1-216-034-00	METAL CHIP	240	5%	1/10W
R713	1-216-049-00	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
SW701	1-692-037-31	SWITCH, KEY BOARD (RESET)			
SW702	1-692-037-31	SWITCH, KEY BOARD (SUB)			
SW703	1-692-037-31	SWITCH, KEY BOARD (P)			
SW704	1-692-037-31	SWITCH, KEY BOARD (DIM)			
SW705	1-692-037-31	SWITCH, KEY BOARD (5)			
SW706	1-692-037-31	SWITCH, KEY BOARD (FAD)			
SW707	1-692-037-31	SWITCH, KEY BOARD (R)			
SW708	1-692-037-31	SWITCH, KEY BOARD (ILM)			
SW709	1-692-037-31	SWITCH, KEY BOARD (4)			
SW710	1-692-037-31	SWITCH, KEY BOARD (+)			
SW711	1-692-037-31	SWITCH, KEY BOARD (J)			
SW712	1-692-037-31	SWITCH, KEY BOARD (EQ)			
SW713	1-692-037-31	SWITCH, KEY BOARD (3)			
SW714	1-692-037-31	SWITCH, KEY BOARD (-)			
SW715	1-692-037-31	SWITCH, KEY BOARD (C)			
SW716	1-692-037-31	SWITCH, KEY BOARD (DSPL)			
SW717	1-692-037-31	SWITCH, KEY BOARD (2)			
SW718	1-692-037-31	SWITCH, KEY BOARD (SENS)			
SW719	1-692-037-31	SWITCH, KEY BOARD (B)			

Ref.No.	Part No.	Description			Remark
SW720	1-692-037-31	SWITCH, KEY BOARD (MEM)			
SW721	1-692-037-31	SWITCH, KEY BOARD (1)			
**********					
*	A-3295-621-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-110-335-11	MYLAR	100PF	5%	50V
C102	1-136-157-00	FILM	0.022uF	5%	50V
C103	1-124-915-11	ELECT	10uF	20%	63V
C104	1-110-335-11	MYLAR	100PF	5%	50V
C105	1-136-165-00	FILM	0.1uF	5%	50V
C106	1-124-915-11	ELECT	10uF	20%	63V
C107	1-124-915-11	ELECT	10uF	20%	63V
C108	1-124-254-71	ELECT	0.68uF	20%	50V
C109	1-124-252-71	ELECT	0.33uF	20%	50V
C110	1-123-379-00	ELECT	0.47uF	20%	50V
C111	1-124-464-11	ELECT	0.22uF	20%	50V
C112	1-124-464-11	ELECT	0.22uF	20%	50V
C113	1-136-166-00	FILM	0.12uF	5%	50V
C114	1-136-167-00	FILM	0.15uF	5%	50V
C115	1-136-163-00	FILM	0.068uF	5%	50V
C116	1-124-249-71	ELECT	0.1uF	20%	50V
C117	1-136-160-00	FILM	0.039uF	5%	50V
C118	1-136-157-00	FILM	0.022uF	5%	50V
C119	1-136-161-00	FILM	0.047uF	5%	50V
C120	1-136-157-00	FILM	0.022uF	5%	50V
C121	1-136-153-00	FILM	0.01uF	5%	50V
C122	1-136-153-00	FILM	0.01uF	5%	50V
C123	1-130-480-00	MYLAR	0.0056uF	5%	50V
C124	1-130-480-00	MYLAR	0.0056uF	5%	50V
C125	1-130-476-00	MYLAR	0.0027uF	5%	50V
C126	1-130-476-00	MYLAR	0.0027uF	5%	50V
C127	1-130-473-00	MYLAR	0.0015uF	5%	50V
C128	1-110-335-11	MYLAR	100PF	5%	50V
C129-139					
	1-124-915-11	ELECT	10uF	20%	63V
C140	1-126-233-11	ELECT	22uF	20%	50V
C141	1-126-233-11	ELECT	22uF	20%	50V
C142	1-124-249-71	ELECT	0.1uF	20%	50V
C143	1-136-162-00	FILM	0.056uF	5%	50V
C144	1-136-162-00	FILM	0.056uF	5%	50V
C145	1-136-165-00	FILM	0.1uF	5%	50V
C146	1-136-158-00	FILM	0.027uF	5%	50V
C147	1-124-915-11	ELECT	10uF	20%	63V
C148	1-124-915-11	ELECT	10uF	20%	63V
C149	1-110-335-11	MYLAR	100PF	5%	50V
C150	1-124-915-11	ELECT	10uF	20%	63V

Ref.No.	Part No.	Description			Remark
C201	1-110-335-11	MYLAR	100PF	5%	50V
C202	1-136-157-00	FILM	0.022uF	5%	50V
C203	1-124-915-11	ELECT	10uF	20%	63V
C204	1-110-335-11	MYLAR	100PF	5%	50V
C205	1-136-165-00	FILM	0.1uF	5%	50V
C206	1-124-915-11	ELECT	10uF	20%	63V
C207	1-124-915-11	ELECT	10uF	20%	63V
C208	1-124-254-71	ELECT	0.68uF	20%	50V
C209	1-124-252-71	ELECT	0.33uF	20%	50V
C210	1-123-379-00	ELECT	0.47uF	20%	50V
C211	1-124-464-11	ELECT	0.22uF	20%	50V
C212	1-124-464-11	ELECT	0.22uF	20%	50V
C213	1-136-166-00	FILM	0.12uF	5%	50V
C214	1-136-167-00	FILM	0.15uF	5%	50V
C215	1-136-163-00	FILM	0.068uF	5%	50V
C216	1-124-249-71	ELECT	0.1uF	20%	50V
C217	1-136-160-00	FILM	0.039uF	5%	50V
C218	1-136-157-00	FILM	0.022uF	5%	50V
C219	1-136-161-00	FILM	0.047uF	5%	50V
C220	1-136-157-00	FILM	0.022uF	5%	50V
C221	1-136-153-00	FILM	0.01uF	5%	50V
C222	1-136-153-00	FILM	0.01uF	5%	50V
C223	1-130-480-00	MYLAR	0.0056uF	5%	50V
C224	1-130-480-00	MYLAR	0.0056uF	5%	50V
C225	1-130-476-00	MYLAR	0.0027uF	5%	50V
C226	1-130-476-00	MYLAR	0.0027uF	5%	50V
C227	1-130-473-00	MYLAR	0.0015uF	5%	50V
C228	1-110-335-11	MYLAR	100PF	5%	50V
C229-239					
	1-124-915-11	ELECT	10uF	20%	63V
C240	1-126-233-11	ELECT	22uF	20%	50V
C241	1-126-233-11	ELECT	22uF	20%	50V
C242	1-124-249-71	ELECT	0.1uF	20%	50V
C243	1-136-162-00	FILM	0.056uF	5%	50V
C244	1-136-162-00	FILM	0.056uF	5%	50V
C245	1-136-165-00	FILM	0.1uF	5%	50V
C246	1-136-158-00	FILM	0.027uF	5%	50V
C247	1-124-915-11	ELECT	10uF	20%	63V
C248	1-124-915-11	ELECT	10uF	20%	63V
C249	1-110-335-11	MYLAR	100PF	5%	50V
C250	1-124-915-11	ELECT	10uF	20%	63V
C901	1-126-101-11	ELECT	100uF	20%	16V
C902	1-126-101-11	ELECT	100uF	20%	16V
C903	1-126-373-11	ELECT	470uF	20%	10V
C904	1-126-373-11	ELECT	470uF	20%	10V
C905	1-136-153-00	FILM	0.01uF	5%	50V
C951	1-126-234-11	ELECT	2200uF	20%	16V
C952	1-136-153-00	FILM	0.01uF	5%	50V
C953	1-124-915-11	ELECT	10uF	20%	63V

MAIN

Ref.No.	Part No.	Description			Remark
C954	1-126-373-11	ELECT	470uF	20%	10V
C955	1-136-163-00	FILM	0.068uF	5%	50V
		< JACK >			
CNJ401	1-750-789-11	JACK, PIN 2P (INPUT)			
CNJ402	1-750-790-11	JACK, PIN 4P (OUTPUT(FRONT/REAR))			
CNJ403	1-750-789-11	JACK, PIN 2P (OUTPUT(SUB WOOFER))			
		< CONNECTOR >			
CNP501	1-750-793-11	PIN, CONNECTOR			
CNP502	1-750-793-21	PIN, CONNECTOR			
CNP503	1-750-793-31	PIN, CONNECTOR			
CNP504	1-750-793-41	PIN, CONNECTOR			
* CNP951	1-691-785-11	PIN, CONNECTOR (PC BOARD) 4P			
		< DIODE >			
D101	8-719-983-69	DIODE	MTZJ-T-72-3.9B		
D102	8-719-110-42	DIODE	RD15ES-B3		
D201	8-719-983-69	DIODE	MTZJ-T-72-3.9B		
D202	8-719-110-42	DIODE	RD15ES-B3		
D901-904	8-719-210-21	DIODE	11EQS04		
D905	8-719-933-56	DIODE	HZS9B1L		
D906	8-719-933-56	DIODE	HZS9B1L		
D951	8-719-200-02	DIODE	10E2		
D952	8-719-110-48	DIODE	RD18ES-B1		
D953	8-719-109-97	DIODE	RD6.8ES-B2		
D955	8-719-933-61	DIODE	HZS9C3L		
		< IC >			
IC101	8-759-711-82	IC	NJM4580E		
IC102	8-759-603-12	IC	M5227P		
IC103	8-759-603-12	IC	M5227P		
IC104	8-759-300-71	IC	HD14053BFP		
IC105	8-759-060-74	IC	TC9213P		
IC106	8-759-711-82	IC	NJM4580E		
IC107	8-759-711-82	IC	NJM4580E		
IC201	8-759-711-82	IC	NJM4580E		
IC202	8-759-603-12	IC	M5227P		
IC203	8-759-603-12	IC	M5227P		
IC204	8-759-300-71	IC	HD14053BFP		
IC205	8-759-060-74	IC	TC9213P		
IC206	8-759-711-82	IC	NJM4580E		
IC207	8-759-711-82	IC	NJM4580E		
IC401	8-759-176-33	IC	NJU7307L		
IC402	8-759-208-09	IC	TC4052BFHB		
IC403	8-759-711-82	IC	NJM4580E		
IC404	8-759-060-74	IC	TC9213P		
IC405	8-759-711-82	IC	NJM4580E		

Ref.No.	Part No.	Description			Remark
		< JUMPER RESISTOR >			
JR101-103	1-216-295-00	METAL CHIP	0	5%	1/10W
JR105-124	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L101	1-424-188-11	COIL, CHOKE	100uH		
L201	1-424-188-11	COIL, CHOKE	100uH		
L401	1-424-188-11	COIL, CHOKE	100uH		
L901	1-424-188-11	COIL, CHOKE	100uH		
L902	1-424-188-11	COIL, CHOKE	100uH		
L951	1-406-764-11	COIL, CHOKE			
L952	1-421-987-11	COIL, CHOKE	100uH		
		< TRANSISTOR >			
Q101-103	8-729-920-31	TRANSISTOR	DTC343TK		
Q201-203	8-729-920-31	TRANSISTOR	DTC343TK		
Q541-544	8-729-207-56	TRANSISTOR	RN1402		
Q951	8-729-216-22	TRANSISTOR	2SA1162-G		
Q952	8-729-216-22	TRANSISTOR	2SA1162-G		
Q953	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q954	8-729-903-87	TRANSISTOR	2SB1188-Q		
Q955	8-729-207-60	TRANSISTOR	RN1405		
Q956	8-729-209-15	TRANSISTOR	2SD2012		
Q957	8-729-803-92	TRANSISTOR	2SK303V4-TA		
Q958	8-729-202-37	TRANSISTOR	2SC3303-Y		
Q959	8-729-202-37	TRANSISTOR	2SC3303-Y		
		< RESISTOR >			
R101	1-216-081-00	METAL CHIP	22K	5%	1/10W
R102	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R103	1-216-081-00	METAL CHIP	22K	5%	1/10W
R104	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R105	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R106	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R107	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R108	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R109	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R110	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R111-120	1-216-113-00	METAL CHIP	470K	5%	1/10W
R121-124	1-216-105-00	METAL CHIP	220K	5%	1/10W
R126	1-216-113-00	METAL CHIP	470K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R127	1-216-113-00	METAL CHIP	470K	5%	1/10W
R128	1-216-089-00	METAL CHIP	47K	5%	1/10W
R129	1-216-089-00	METAL CHIP	47K	5%	1/10W
R130	1-216-073-00	METAL CHIP	10K	5%	1/10W
R131	1-216-073-00	METAL CHIP	10K	5%	1/10W
R132	1-216-049-00	METAL CHIP	1K	5%	1/10W
R133	1-216-049-00	METAL CHIP	1K	5%	1/10W
R141	1-216-097-00	METAL CHIP	100K	5%	1/10W
R142	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R143	1-216-073-00	METAL CHIP	10K	5%	1/10W
R144	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R145	1-216-091-00	METAL CHIP	56K	5%	1/10W
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W
R147	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R148	1-216-091-00	METAL CHIP	56K	5%	1/10W
R149	1-216-121-00	METAL CHIP	1M	5%	1/10W
R151	1-216-089-00	METAL CHIP	47K	5%	1/10W
R152	1-216-089-00	METAL CHIP	47K	5%	1/10W
R153	1-216-077-00	METAL CHIP	15K	5%	1/10W
R154	1-216-097-00	METAL CHIP	100K	5%	1/10W
R155	1-216-073-00	METAL CHIP	10K	5%	1/10W
R156	1-216-049-00	METAL CHIP	1K	5%	1/10W
R157	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W
R202	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R203	1-216-081-00	METAL CHIP	22K	5%	1/10W
R204	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R205	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R206	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R207	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R208	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R209	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R210	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R211-220					
	1-216-113-00	METAL CHIP	470K	5%	1/10W
R221-224					
	1-216-105-00	METAL CHIP	220K	5%	1/10W
R226	1-216-113-00	METAL CHIP	470K	5%	1/10W
R227	1-216-113-00	METAL CHIP	470K	5%	1/10W
R228	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R229	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R230	1-216-073-00	METAL CHIP	10K	5%	1/10W
R231	1-216-073-00	METAL CHIP	10K	5%	1/10W
R232	1-216-049-00	METAL CHIP	1K	5%	1/10W
R233	1-216-049-00	METAL CHIP	1K	5%	1/10W
R241	1-216-097-00	METAL CHIP	100K	5%	1/10W
R242	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R243	1-216-073-00	METAL CHIP	10K	5%	1/10W
R244	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R245	1-216-091-00	METAL CHIP	56K	5%	1/10W
R246	1-216-073-00	METAL CHIP	10K	5%	1/10W
R247	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R248	1-216-091-00	METAL CHIP	56K	5%	1/10W
R249	1-216-121-00	METAL CHIP	1M	5%	1/10W
R251	1-216-089-00	METAL CHIP	47K	5%	1/10W
R252	1-216-089-00	METAL CHIP	47K	5%	1/10W
R253	1-216-077-00	METAL CHIP	15K	5%	1/10W
R254	1-216-097-00	METAL CHIP	100K	5%	1/10W
R255	1-216-073-00	METAL CHIP	10K	5%	1/10W
R256	1-216-049-00	METAL CHIP	1K	5%	1/10W
R257	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R541-544					
	1-216-073-00	METAL CHIP	10K	5%	1/10W
R901	1-216-142-00	METAL GLAZE	4.7	5%	1/8W
R902	1-216-142-00	METAL GLAZE	4.7	5%	1/8W
R951	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R952	1-216-037-00	METAL CHIP	330	5%	1/10W
R953	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
R954	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R955	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R957	1-216-073-00	METAL CHIP	10K	5%	1/10W
R958	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R959	1-216-262-00	METAL GLAZE	470K	5%	1/8W
R960	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
R961	1-216-262-00	METAL GLAZE	470K	5%	1/8W

< TRANSFORMER >

T951	1-423-718-11	TRANSFORMER, POWER			

****

*	A-3295-622-A	SUB BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT			

< BUZZER >

BZ501	1-529-070-11	BUZZER			

< CAPACITOR >

C501	1-126-157-11	ELECT	10uF	20%	16V
C502	1-124-442-00	ELECT	330uF	20%	6.3V
C503	1-124-256-00	ELECT	1.5uF	20%	50V
C504	1-126-157-11	ELECT	10uF	20%	16V
C505	1-124-256-00	ELECT	1.5uF	20%	50V
C506	1-126-157-11	ELECT	10uF	20%	16V
C507	1-136-159-00	FILM	0.033uF	5%	50V
C508	1-136-159-00	FILM	0.033uF	5%	50V
C509	1-163-124-00	CERAMIC CHIP	200PF	5%	50V

SUB

Ref.No.	Part No.	Description			Remark
C510	1-126-157-11	ELECT	10uF	20%	16V
C511	1-124-249-71	ELECT	0.1uF	20%	50V
C906	1-126-157-11	ELECT	10uF	20%	16V
C907	1-126-157-11	ELECT	10uF	20%	16V
C908	1-136-165-00	FILM	0.1uF	5%	50V
C909	1-136-165-00	FILM	0.1uF	5%	50V
C971	1-136-157-00	FILM	0.022uF	5%	50V
C972	1-126-157-11	ELECT	10uF	20%	16V
C973	1-126-157-11	ELECT	10uF	20%	16V
C974	1-136-165-00	FILM	0.1uF	5%	50V
C975	1-164-494-11	CERAMIC	39PF	5%	2KV
C976	1-126-157-11	ELECT	10uF	20%	16V
		< JACK >			
CNJ501	1-750-690-11	CONNECTOR			
CNJ502	1-750-690-21	CONNECTOR			
CNJ503	1-750-690-31	CONNECTOR			
CNJ504	1-750-690-41	CONNECTOR			
CNJ701	1-750-792-11	CONNECTOR			
CNJ702	1-750-792-21	CONNECTOR			
		< DIODE >			
D501	8-719-802-30	DIODE	1SS176		
D502	8-719-935-46	DIODE	HZS7A1LTD		
D503-505	8-719-802-30	DIODE	1SS176		
D507-508	8-719-802-30	DIODE	1SS176		
D509-A	8-719-802-30	DIODE	1SS176		
D509-B	8-719-983-68	DIODE	MTZJ-T-72-3.9A		
D510-A	8-719-802-30	DIODE	1SS176		
D510-B	8-719-983-68	DIODE	MTZJ-T-72-3.9A		
D511	8-719-802-30	DIODE	1SS176		
D512	8-719-935-39	DIODE	HZS6B1LTD		
D513	8-719-933-61	DIODE	HZS9C3LTD		
D514	8-719-802-30	DIODE	1SS176		
D515	8-719-802-30	DIODE	1SS176		
D516	8-719-933-33	DIODE	HZS6A1L		
D518	8-719-802-30	DIODE	1SS176		
D907	8-719-109-89	DIODE	RD5.6ES-B2		
D908	8-719-109-89	DIODE	RD5.6ES-B2		
D954	8-719-109-85	DIODE	RD5.1ES-B2		
D971	8-719-109-93	DIODE	RD6.2ES-B2		
D972	8-719-109-89	DIODE	RD5.6ES-B2		
		< IC >			
IC501	8-759-176-34	IC	uPD75516GF-488-3B9		
IC502	8-759-518-87	IC	S-8052HNM-CR-S		
IC503	8-759-512-48	IC	XR-1092CP		
IC504	8-759-711-82	IC	NJM4580E		
IC971	8-759-635-21	IC	M5223FP		
		< COIL >			
L971-973	1-424-188-11	COIL, CHOKE	100uH		
		< TRANSISTOR >			
Q501	1-807-736-71	TRANSISTOR	2SD1664-Q-T100		
Q502	8-729-207-56	TRANSISTOR	RN1402		
Q503	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q504-507	8-729-207-56	TRANSISTOR	RN1402		
Q508	8-729-207-68	TRANSISTOR	RN2402		
Q509	1-807-736-71	TRANSISTOR	2SD1664-Q-T100		
Q510	8-729-931-14	TRANSISTOR	2SD1858-Q-TV2		
Q511	8-729-207-68	TRANSISTOR	RN2402		
Q971	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q972	8-729-207-56	TRANSISTOR	RN1402		
Q973	8-729-205-97	TRANSISTOR	2SC3668-Y		
Q974	8-729-205-97	TRANSISTOR	2SC3668-Y		
		< RESISTOR >			
R125	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R225	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R501	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R502	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R503	1-216-049-00	METAL CHIP	1K	5%	1/10W
R504	1-216-049-00	METAL CHIP	1K	5%	1/10W
R505	1-216-099-00	METAL CHIP	120K	5%	1/10W
R506	1-216-089-00	METAL CHIP	47K	5%	1/10W
R507	1-216-045-00	METAL CHIP	680	5%	1/10W
R508	1-216-089-00	METAL CHIP	47K	5%	1/10W
R509	1-216-081-00	METAL CHIP	22K	5%	1/10W
R510-516	1-216-049-00	METAL CHIP	1K	5%	1/10W
R517	1-216-081-00	METAL CHIP	22K	5%	1/10W
R518	1-216-085-00	METAL CHIP	33K	5%	1/10W
R519	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R520	1-216-089-00	METAL CHIP	47K	5%	1/10W
R521	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R522	1-216-073-00	METAL CHIP	10K	5%	1/10W
R523	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R524	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R525	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R526	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R527	1-216-022-00	METAL CHIP	75	5%	1/10W
R528	1-216-022-00	METAL CHIP	75	5%	1/10W

Ref. No.	Part No.	Description			Remark
R529	1-216-073-00	METAL CHIP	10K	5%	1/10W
R530	1-216-081-00	METAL CHIP	22K	5%	1/10W
R531	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R532	1-216-089-00	METAL CHIP	47K	5%	1/10W
R533	1-216-073-00	METAL CHIP	10K	5%	1/10W
R534-536					
	1-216-097-00	MEATL CHIP	100K	5%	1/10W
R537	1-216-073-00	METAL CHIP	10K	5%	1/10W
R903	1-216-176-00	METAL GLAZE	120	5%	1/8W
R904	1-216-176-00	METAL GLAZE	120	5%	1/8W
R956	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R971	1-216-198-00	METAL CHIP	1K	5%	1/8W
R972	1-216-037-00	METAL CHIP	330	5%	1/10W
R973	1-216-208-00	METAL GLAZE	2.7K	5%	1/8W
R974	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R975	1-216-049-00	METAL CHIP	1K	5%	1/10W
R976	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W
R977	1-216-075-00	METAL CHIP	12K	5%	1/10W
R978	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R979	1-216-081-00	METAL CHIP	22K	5%	1/10W
		< TRANSFORMER >			
T971	1-448-886-11	TRANSFORMER, DC-DC CONVERTER			
		< THERMISTOR >			
TH971	1-800-070-XX	THERMISTOR TH-4700			
		< CRYSTAL >			
X501	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			

****

ACCESSORIES & PACKING MATERIALS

****

	1-696-710-11	CORD (WITH CONNECTOR)
*	3-372-640-01	CUSHION (UPPER)
*	3-372-641-01	CUSHION (LOWER)
	3-757-068-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE)
	3-757-069-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH, CHINESE)
*	3-905-881-01	INDIVIDUAL CARTON

****

Ref. No.	Part No.	Description	Remark

****

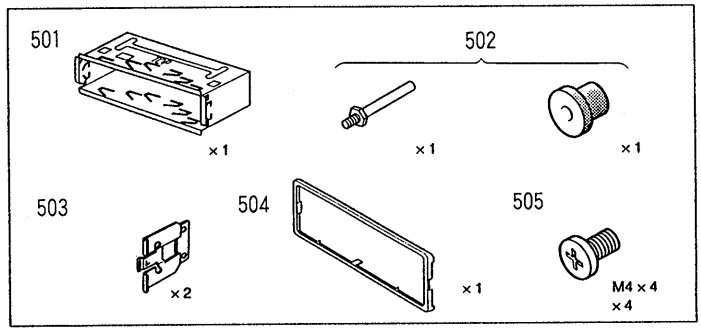
HARDWARE LIST

****

#1	7-685-233-19	SCREW +KTP 2.6X6 TYPE2NON-SLIT
#2	7-685-104-19	SCREW +P 2X6 TYPE2 SLIT
#3	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT
#4	7-685-647-79	SCREW +P 3X10 TYPE2 SLIT
#5	7-621-770-67	SCREW +BVTT 2.6X6 (S)

****

MOUNTING HARDWARE



*501	X-3366-235-1	FRAME ASSY, FITTING
502	X-3366-405-1	SCREW ASSY (EXP), FITTING
503	3-383-345-01	SPRING, FITTING
504	2-182-318-01	FRAME, ORNAMENTAL
505	3-344-561-21	SCREW (M4X4)

9-957-911-11

Sony Corporation
Mobile Electronics Group

English
93E0233-1
Printed in Japan
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Published by Audio Sector Quality Assurance Dept.

XE-744

SONY

SERVICE MANUAL

US Model
Canadian Model
E Model

SUPPLEMENT-1

File this Supplement with the Service Manual.

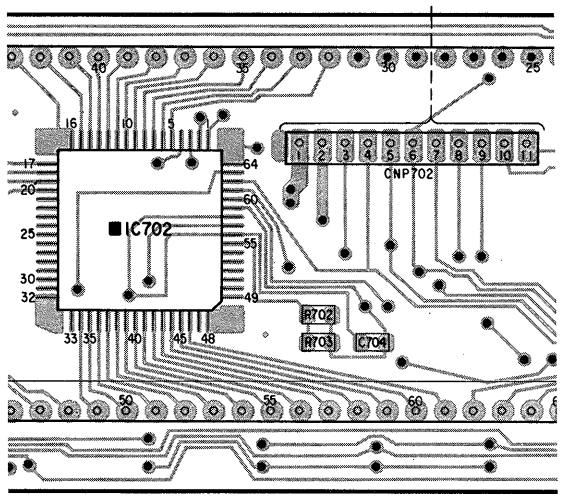
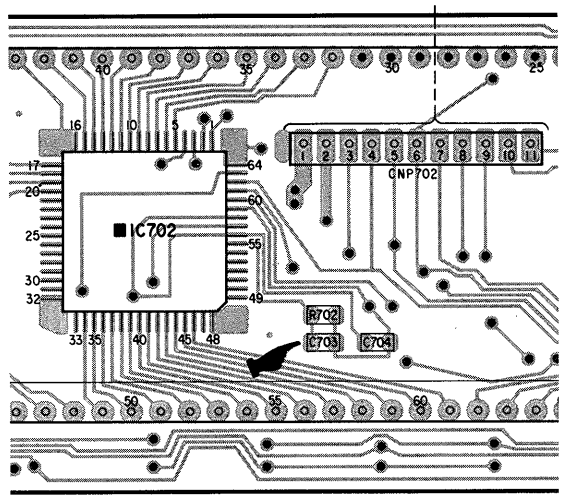
Subject :
1. Correction
2. Chang of Main and Sub Boards

1. CORRECTION

Correct your service manual as shown below.

page 11 (Location : K – 15)

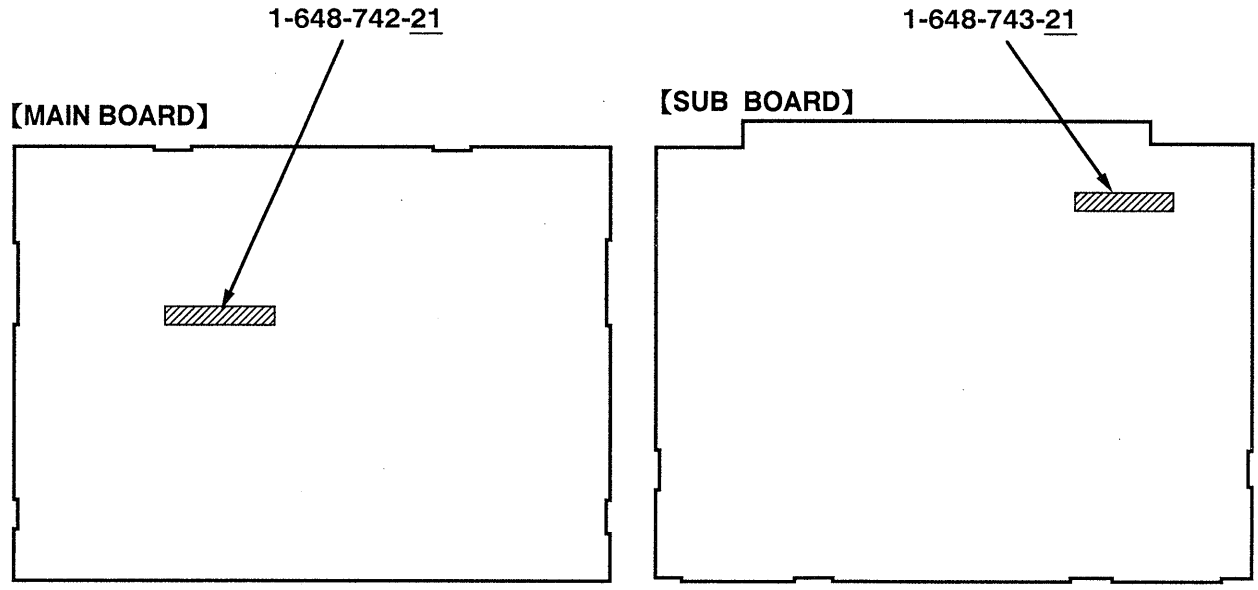
☛ : **Corrected portion**

incorrect	correct
	

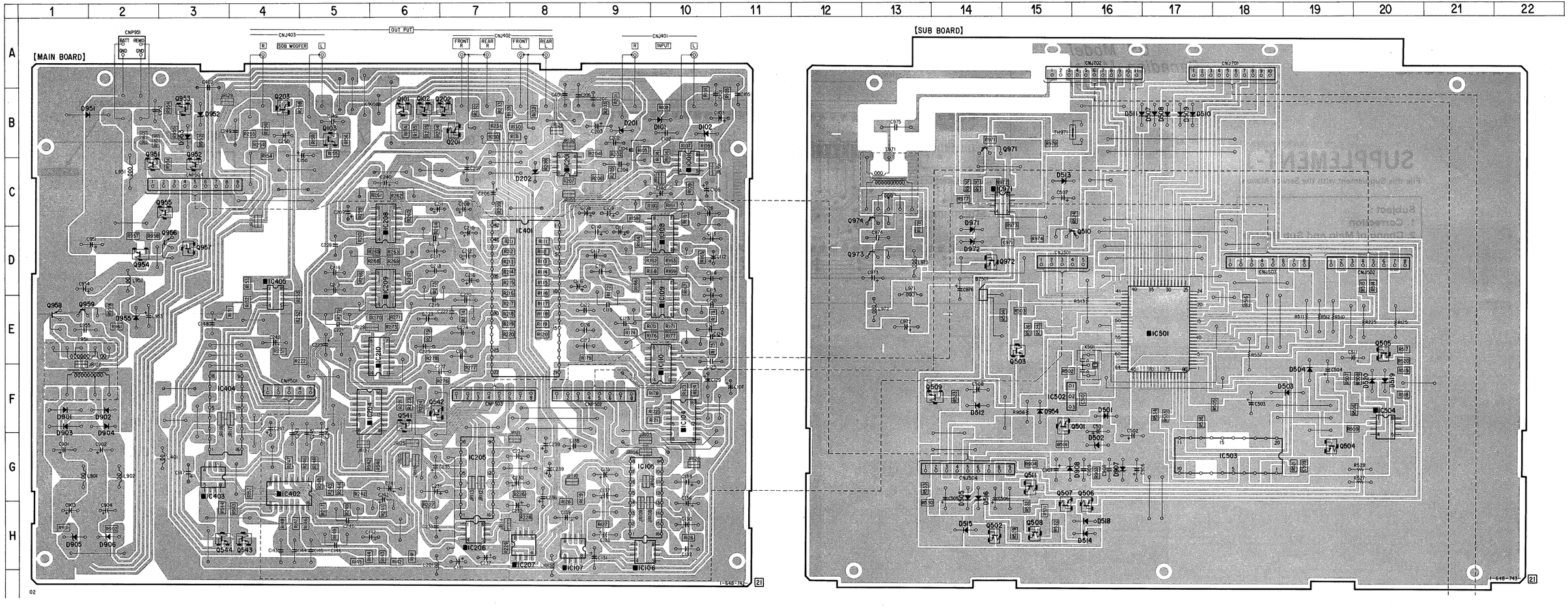
2. CHANGE OF MAIN AND SUB BOARDS

Main and sub boards have been changed.
Printed wiring boards, schematic diagram and electrical parts list of new type main and sub boards are described in this supplement -1.

NEW TYPE IDENTIFICATION



PRINTED WIRING BOARDS

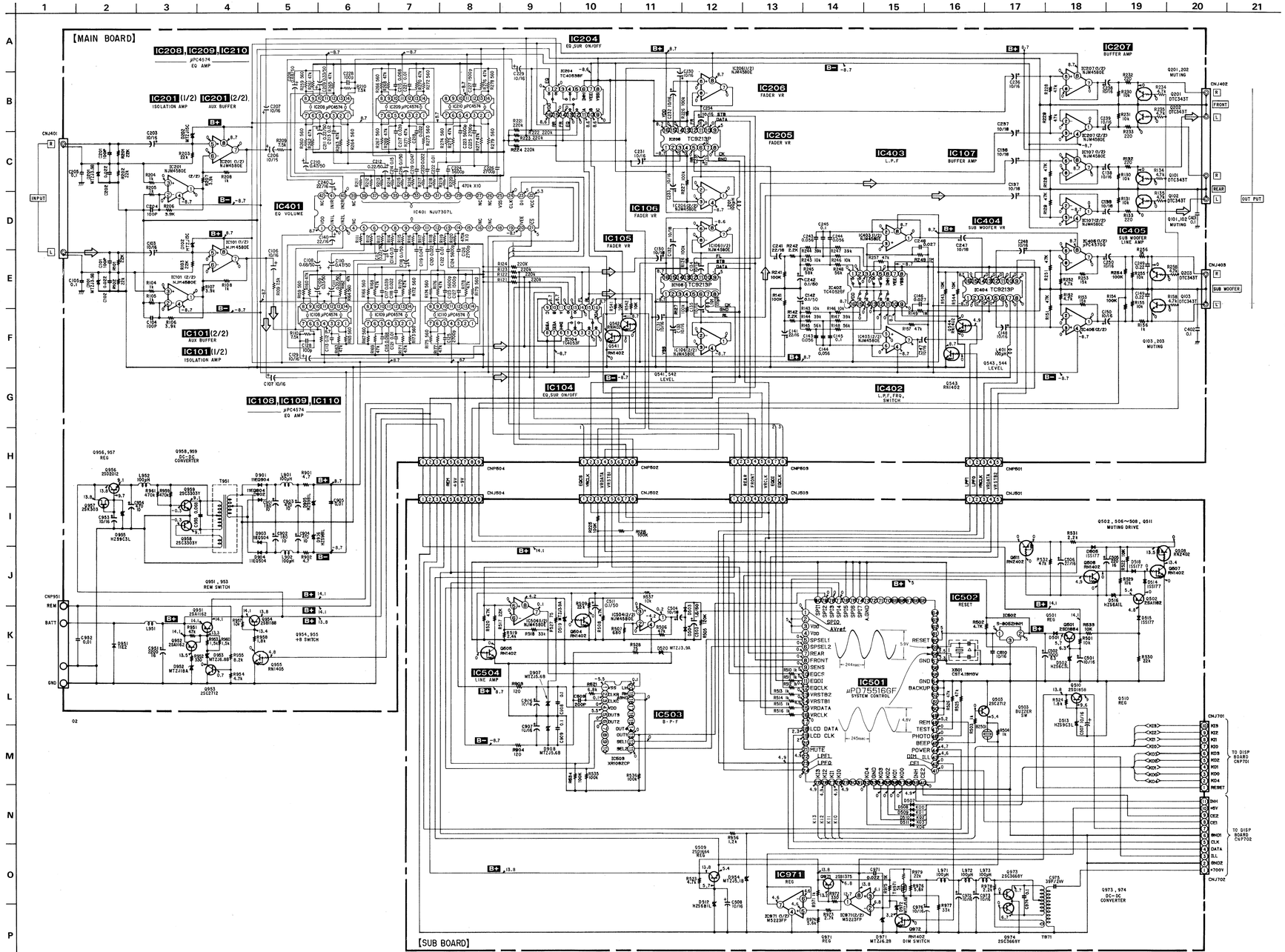


Note:

- ○— : parts extracted from the component side.
- ▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

Caution :

Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.



• SEMICONDUCTOR LOCATION

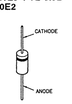
Ref. No.	Location	Ref. No.	Location
D101	B-10	IC210	E-6
D102	B-10	IC401	D-8
D201	B-9	IC402	G-4
D202	C-8	IC403	G-3
D501	F-16	IC404	F-3
D502	G-16	IC405	D-4
D503	F-19	IC501	E-17
D504	F-19	IC502	F-15
D505	G-14	IC503	G-18
D507	B-17	IC504	F-20
D508	B-17	IC971	C-15
D509	B-17		
D510	B-17		
D511	B-17	Q101	B-6
D512	F-14	Q102	B-6
		Q103	B-5
D513	C-15	Q201	B-7
D514	H-16	Q202	B-7
D515	H-14		
D516	G-14	Q203	B-4
D518	H-16	Q501	F-15
		Q502	H-14
D519	F-20	Q503	E-15
D520	F-20	Q504	G-19
D901	F-1		
D902	F-2	Q505	E-20
D903	F-1	Q506	H-16
		Q507	H-15
D904	F-2	Q508	H-15
D905	H-1	Q509	F-14
D906	H-2		
D907	G-16	Q510	D-16
D908	G-15	Q511	G-15
		Q541	F-6
D951	B-1	Q542	F-6
D952	B-3	Q543	H-4
D953	B-3		
D954	F-15	Q544	H-3
D955	E-2	Q951	C-2
		Q952	C-3
D971	D-14	Q953	B-3
D972	D-14	Q954	D-2
		Q955	C-3
IC101	C-10	Q956	D-3
IC104	F-10	Q957	D-3
IC105	G-9	Q958	E-1
IC106	H-9	Q959	E-1
IC107	H-8		
		Q971	B-14
IC108	D-10	Q972	D-14
IC109	E-10	Q973	D-13
IC110	E-10	Q974	C-13
IC201	C-8		
IC204	F-5		
IC205	G-7		
IC206	H-7		
IC207	H-8		
IC208	C-6		
IC209	D-6		

• Semiconductor Lead Layouts

S-8052HNM-CR-S

2SD1664-Q-T100

MTZJ-T-72-3.9B
10E2



2SD1858-Q-TV2

RN1402
RN1405
RN2402
2SA1162Y-TE85L
2SC2712-YG
2SC3326N

1SS181

2SK303

2SB1094-LK
2SD2012

CL-155G/PG-D-TL

HZS6A1L
HZS6B1LTD
HZS7A1LTD
HZS9B1L
RD5.1ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD6.8ES-B2
RD15ES-B3
RD18ES-B1
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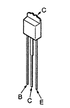

HZS9C3L
MTZJ-T-72-3.9A

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.
- **B+** : B+ Line
- **B−** : B − Line
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and REM terminals.
- Voltage is dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.

⇨ : AUDIO

ELECTRICAL PARTS LIST

MAIN

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3298-202-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-110-335-11	MYLAR	100PF	5%	50V
C102	1-136-157-00	FILM	0.022uF	5%	50V
C103	1-124-915-11	ELECT	10uF	20%	63V
C104	1-110-335-11	MYLAR	100PF	5%	50V
C105	1-136-165-00	FILM	0.1uF	5%	50V
C106	1-124-915-11	ELECT	10uF	20%	63V
C107	1-124-915-11	ELECT	10uF	20%	63V
C108	1-124-254-00	ELECT	0.68uF	20%	50V
C109	1-124-252-00	ELECT	0.33uF	20%	50V
C110	1-123-379-00	ELECT	0.47uF	20%	50V
C111	1-124-464-11	ELECT	0.22uF	20%	50V
C112	1-124-464-11	ELECT	0.22uF	20%	50V
C113	1-136-166-00	FILM	0.12uF	5%	50V
C114	1-136-167-00	FILM	0.15uF	5%	50V
C115	1-136-163-00	FILM	0.068uF	5%	50V
C116	1-124-463-00	ELECT	0.1uF	20%	50V
C117	1-136-160-00	FILM	0.039uF	5%	50V
C118	1-136-157-00	FILM	0.022uF	5%	50V
C119	1-136-161-00	FILM	0.047uF	5%	50V
C120	1-136-157-00	FILM	0.022uF	5%	50V
C121	1-136-153-00	FILM	0.01uF	5%	50V
C122	1-136-153-00	FILM	0.01uF	5%	50V
C123	1-130-480-00	MYLAR	0.0056uF	5%	50V
C124	1-130-480-00	MYLAR	0.0056uF	5%	50V
C125	1-130-476-00	MYLAR	0.0027uF	5%	50V
C126	1-130-476-00	MYLAR	0.0027uF	5%	50V
C127	1-130-473-00	MYLAR	0.0015uF	5%	50V
C128	1-110-335-11	MYLAR	100PF	5%	50V
C129-139					
	1-124-915-11	ELECT	10uF	20%	63V

Ref. No.	Part No.	Description			Remark
C140	1-126-233-11	ELECT	22uF	20%	50V
C141	1-126-233-11	ELECT	22uF	20%	50V
C142	1-124-463-00	ELECT	0.1uF	20%	50V
C143	1-136-162-00	FILM	0.056uF	5%	50V
C144	1-136-162-00	FILM	0.056uF	5%	50V
C145	1-136-165-00	FILM	0.1uF	5%	50V
C146	1-136-158-00	FILM	0.027uF	5%	50V
C147	1-124-915-11	ELECT	10uF	20%	63V
C148	1-124-915-11	ELECT	10uF	20%	63V
C149	1-136-169-00	FILM	0.22uF	5%	50V
C150	1-124-915-11	ELECT	10uF	20%	63V
C201	1-110-335-11	MYLAR	100PF	5%	50V
C202	1-136-157-00	FILM	0.022uF	5%	50V
C203	1-124-915-11	ELECT	10uF	20%	63V
C204	1-110-335-11	MYLAR	100PF	5%	50V
C205	1-136-165-00	FILM	0.1uF	5%	50V
C206	1-124-915-11	ELECT	10uF	20%	63V
C207	1-124-915-11	ELECT	10uF	20%	63V
C208	1-124-254-00	ELECT	0.68uF	20%	50V
C209	1-124-252-00	ELECT	0.33uF	20%	50V
C210	1-123-379-00	ELECT	0.47uF	20%	50V
C211	1-124-464-11	ELECT	0.22uF	20%	50V
C212	1-124-464-11	ELECT	0.22uF	20%	50V
C213	1-136-166-00	FILM	0.12uF	5%	50V
C214	1-136-167-00	FILM	0.15uF	5%	50V
C215	1-136-163-00	FILM	0.068uF	5%	50V
C216	1-124-463-00	ELECT	0.1uF	20%	50V
C217	1-136-160-00	FILM	0.039uF	5%	50V
C218	1-136-157-00	FILM	0.022uF	5%	50V
C219	1-136-161-00	FILM	0.047uF	5%	50V
C220	1-136-157-00	FILM	0.022uF	5%	50V
C221	1-136-153-00	FILM	0.01uF	5%	50V
C222	1-136-153-00	FILM	0.01uF	5%	50V
C223	1-130-480-00	MYLAR	0.0056uF	5%	50V

MAIN

Ref.No.	Part No.	Description			Remark
C224	1-130-480-00	MYLAR	0.0056uF	5%	50V
C225	1-130-476-00	MYLAR	0.0027uF	5%	50V
C226	1-130-476-00	MYLAR	0.0027uF	5%	50V
C227	1-130-473-00	MYLAR	0.0015uF	5%	50V
C228	1-110-335-11	MYLAR	100PF	5%	50V
C229-239					
	1-124-915-11	ELECT	10uF	20%	63V
C240	1-126-233-11	ELECT	22uF	20%	50V
C241	1-126-233-11	ELECT	22uF	20%	50V
C242	1-124-463-00	ELECT	0.1uF	20%	50V
C243	1-136-162-00	FILM	0.056uF	5%	50V
C244	1-136-162-00	FILM	0.056uF	5%	50V
C245	1-136-165-00	FILM	0.1uF	5%	50V
C246	1-136-158-00	FILM	0.027uF	5%	50V
C247	1-124-915-11	ELECT	10uF	20%	63V
C248	1-124-915-11	ELECT	10uF	20%	63V
C249	1-136-169-00	FILM	0.22uF	5%	50V
C250	1-124-915-11	ELECT	10uF	20%	63V
C401	1-136-165-00	FILM	0.1uF	5%	50V
C402	1-136-165-00	FILM	0.1uF	5%	50V
C901	1-124-942-11	ELECT	180uF	20%	10V
C902	1-124-942-11	ELECT	180uF	20%	10V
C903	1-126-373-11	ELECT	470uF	20%	10V
C904	1-126-373-11	ELECT	470uF	20%	10V
C905	1-136-153-00	FILM	0.01uF	5%	50V
C951	1-126-234-11	ELECT	2200uF	20%	16V
C952	1-136-153-00	FILM	0.01uF	5%	50V
C953	1-124-915-11	ELECT	10uF	20%	63V
C954	1-126-373-11	ELECT	470uF	20%	10V
C955	1-136-163-00	FILM	0.068uF	5%	50V
		< JACK >			
CNJ401	1-750-789-11	JACK, PIN 2P (INPUT)			
CNJ402	1-750-790-11	JACK, PIN 4P (OUTPUT(FRONT/REAR))			
CNJ403	1-750-789-11	JACK, PIN 2P (OUTPUT(SUB WOOFER))			
		< CONNECTOR >			
CNP501	1-750-793-11	PIN, CONNECTOR			
CNP502	1-750-793-21	PIN, CONNECTOR			
CNP503	1-750-793-31	PIN, CONNECTOR			
CNP504	1-750-793-41	PIN, CONNECTOR			
* CNP951	1-691-785-11	PIN, CONNECTOR (PC BOARD) 4P			
		< DIODE >			
D101	8-719-983-69	DIODE	MTZJ-T-72-3.9B		
D102	8-719-110-42	DIODE	RD15ES-B3		
D201	8-719-983-69	DIODE	MTZJ-T-72-3.9B		
D202	8-719-110-42	DIODE	RD15ES-B3		
D901-904					
	8-719-210-21	DIODE	11EQS04		

Ref.No.	Part No.	Description		Remark
D905	8-719-933-56	DIODE	HZS9B1L	
D906	8-719-933-56	DIODE	HZS9B1L	
D951	8-719-200-02	DIODE	10E2	
D952	8-719-110-48	DIODE	RD18ES-B1	
D953	8-719-109-97	DIODE	RD6.8ES-B2	
D955	8-719-933-61	DIODE	HZS9C3L	
		< IC >		
IC101	8-759-711-82	IC	NJM4580E	
IC104	8-759-300-71	IC	HD14053BFP	
IC105	8-759-060-74	IC	TC9213P	
IC106	8-759-711-82	IC	NJM4580E	
IC107	8-759-711-82	IC	NJM4580E	
IC108-110				
	8-759-141-05	IC	uPC4574G2	
IC201	8-759-711-82	IC	NJM4580E	
IC204	8-759-300-71	IC	HD14053BFP	
IC205	8-759-060-74	IC	TC9213P	
IC206	8-759-711-82	IC	NJM4580E	
IC207	8-759-711-82	IC	NJM4580E	
IC208-210				
	8-759-141-05	IC	uPC4574G2	
IC401	8-759-176-33	IC	NJU7307L	
IC402	8-759-208-09	IC	TC4052BFHB	
IC403	8-759-711-82	IC	NJM4580E	
IC404	8-759-060-74	IC	TC9213P	
IC405	8-759-106-02	IC	uPC4570G2	
		< COIL >		
L101	1-410-521-11	INDUCTOR	100uH	
L201	1-410-521-11	INDUCTOR	100uH	
L401	1-410-521-11	INDUCTOR	100uH	
L901	1-424-188-11	COIL, CHOKE	100uH	
L902	1-424-188-11	COIL, CHOKE	100uH	
L951	1-406-764-11	COIL, CHOKE		
L952	1-421-987-11	COIL, CHOKE	100uH	
		< TRANSISTOR >		
Q101-103				
	8-729-202-38	TRANSISTOR	2SC3326N	
Q201-203				
	8-729-202-38	TRANSISTOR	2SC3326N	
Q541-544				
	8-729-207-56	TRANSISTOR	RN1402	
Q951	8-729-216-21	TRANSISTOR	2SA1162Y-TE85L	
Q952	8-729-216-21	TRANSISTOR	2SA1162Y-TE85L	
Q953	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q954	8-729-903-87	TRANSISTOR	2SB1188-Q	
Q955	8-729-207-60	TRANSISTOR	RN1405	

Ref. No.	Part No.	Description			Remark
Q956	8-729-209-15	TRANSISTOR	2SD2012		
Q957	8-729-830-33	TRANSISTOR	2SK303-V4		
Q958	8-729-202-37	TRANSISTOR	2SC3303-Y		
Q959	8-729-202-37	TRANSISTOR	2SC3303-Y		
		< RESISTOR >			
R101-103					
	1-216-081-00	METAL CHIP	22K	5%	1/10W
R104	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R105	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R106	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R107	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R108	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R109	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R110	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R111-120					
	1-216-113-00	METAL CHIP	470K	5%	1/10W
R121-124					
	1-216-105-00	METAL CHIP	220K	5%	1/10W
R126	1-216-097-00	METAL CHIP	100K	5%	1/10W
R127	1-216-097-00	METAL CHIP	100K	5%	1/10W
R128	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R129	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R130	1-216-073-00	METAL CHIP	10K	5%	1/10W
R131	1-216-073-00	METAL CHIP	10K	5%	1/10W
R132	1-216-033-00	METAL CHIP	220	5%	1/10W
R133	1-216-033-00	METAL CHIP	220	5%	1/10W
R134	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R135	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R141	1-216-097-00	METAL CHIP	100K	5%	1/10W
R142	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R143	1-216-073-00	METAL CHIP	10K	5%	1/10W
R144	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R145	1-216-091-00	METAL CHIP	56K	5%	1/10W
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W
R147	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R148	1-216-091-00	METAL CHIP	56K	5%	1/10W
R149	1-216-121-00	METAL CHIP	1M	5%	1/10W
R151	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R152	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R153	1-216-077-00	METAL CHIP	15K	5%	1/10W
R154	1-216-097-00	METAL CHIP	100K	5%	1/10W
R155	1-216-073-00	METAL CHIP	10K	5%	1/10W
R156	1-216-049-00	METAL CHIP	1K	5%	1/10W
R157	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R158	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R159	1-216-043-00	METAL CHIP	560	5%	1/10W
R160-163					
	1-216-089-00	METAL GLAZE	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R164-167					
	1-216-043-00	METAL CHIP	560	5%	1/10W
R168-171					
	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R172-175					
	1-216-043-00	METAL CHIP	560	5%	1/10W
R176-178					
	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R179	1-216-043-00	METAL CHIP	560	5%	1/10W
R201-203					
	1-216-081-00	METAL CHIP	22K	5%	1/10W
R204	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R205	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R206	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R207	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W
R208	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R209	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R210	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R211-220					
	1-216-113-00	METAL CHIP	470K	5%	1/10W
R221-224					
	1-216-105-00	METAL CHIP	220K	5%	1/10W
R226	1-216-097-00	METAL CHIP	100K	5%	1/10W
R227	1-216-097-00	METAL CHIP	100K	5%	1/10W
R228	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R229	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R230	1-216-073-00	METAL CHIP	10K	5%	1/10W
R231	1-216-073-00	METAL CHIP	10K	5%	1/10W
R232	1-216-033-00	METAL CHIP	220	5%	1/10W
R233	1-216-033-00	METAL CHIP	220	5%	1/10W
R234	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R235	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R241	1-216-097-00	METAL CHIP	100K	5%	1/10W
R242	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R243	1-216-073-00	METAL CHIP	10K	5%	1/10W
R244	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R245	1-216-091-00	METAL CHIP	56K	5%	1/10W
R246	1-216-073-00	METAL CHIP	10K	5%	1/10W
R247	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R248	1-216-091-00	METAL CHIP	56K	5%	1/10W
R249	1-216-121-00	METAL CHIP	1M	5%	1/10W
R251	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R252	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R253	1-216-077-00	METAL CHIP	15K	5%	1/10W
R254	1-216-097-00	METAL CHIP	100K	5%	1/10W
R255	1-216-073-00	METAL CHIP	10K	5%	1/10W
R256	1-216-049-00	METAL CHIP	1K	5%	1/10W
R257	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R258	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R259	1-216-043-00	METAL CHIP	560	5%	1/10W

MAIN **SUB**

Ref.No.	Part No.	Description			Remark
R260	1-216-043-00	METAL CHIP	560	5%	1/10W
R261-263					
	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R264	1-216-043-00	METAL CHIP	560	5%	1/10W
R265	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R266	1-216-043-00	METAL CHIP	560	5%	1/10W
R267	1-216-043-00	METAL CHIP	560	5%	1/10W
R268-271					
	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R272-274					
	1-216-043-00	METAL CHIP	560	5%	1/10W
R275-277					
	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R278	1-216-043-00	METAL CHIP	560	5%	1/10W
R279	1-216-043-00	METAL CHIP	560	5%	1/10W
R541-544					
	1-216-073-00	METAL CHIP	10K	5%	1/10W
R901	1-216-142-00	METAL GLAZE	4.7	5%	1/8W
R902	1-216-142-00	METAL GLAZE	4.7	5%	1/8W
R951	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R952	1-216-037-00	METAL CHIP	330	5%	1/10W
R953	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
R954	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R955	1-216-220-00	METAL GLAZE	8.2K	5%	1/8W
R957	1-216-073-00	METAL CHIP	10K	5%	1/10W
R958	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R959	1-216-197-00	METAL GLAZE	910	5%	1/8W
R960	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
R961	1-216-197-00	METAL GLAZE	910	5%	1/8W
		< TRANSFORMER >			
T951	1-423-718-11	TRANSFORMER, POWER			
**********					
*	A-3295-622-A	SUB BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT			
		< BUZZER >			
BZ501	1-529-070-11	BUZZER			
		< CAPACITOR >			
C501	1-126-157-11	ELECT	10uF	20%	16V
C502	1-124-985-11	ELECT	1000uF	20%	6.3V
C503	1-124-256-00	ELECT	1.5uF	20%	50V
C504	1-126-157-11	ELECT	10uF	20%	16V
C505	1-124-024-11	ELECT	220uF	20%	50V
C506	1-126-006-11	ELECT	22uF	20%	16V
C507	1-126-157-11	ELECT	10uF	20%	16V

Ref.No.	Part No.	Description			Remark
C508	1-126-157-11	ELECT	10uF	20%	16V
C509	1-163-124-00	CERAMIC CHIP	200PF	5%	50V
C510	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C511	1-128-056-11	ELECT	0.1uF	20%	50V
C906	1-126-157-11	ELECT	10uF	20%	16V
C907	1-126-157-11	ELECT	10uF	20%	16V
C908	1-136-165-00	FILM	0.1uF	5%	50V
C909	1-136-165-00	FILM	0.1uF	5%	50V
C971	1-136-157-00	FILM	0.022uF	5%	50V
C972	1-126-157-11	ELECT	10uF	20%	16V
C973	1-126-157-11	ELECT	10uF	20%	16V
C974	1-136-165-00	FILM	0.1uF	5%	50V
C975	1-164-494-11	CERAMIC	39PF	5%	2KV
C976	1-126-157-11	ELECT	10uF	20%	16V
		< CONNECTOR >			
CNJ501	1-750-690-11	CONNECTOR			
CNJ502	1-750-690-21	CONNECTOR			
CNJ503	1-750-690-31	CONNECTOR			
CNJ504	1-750-690-41	CONNECTOR			
CNJ701	1-750-792-11	CONNECTOR			
CNJ702	1-750-792-21	CONNECTOR			
		< DIODE >			
D501	8-719-820-58	DIODE	1SS177		
D502	8-719-935-46	DIODE	HZS7A1LTD		
D503-505					
	8-719-820-58	DIODE	1SS177		
D507-511					
	8-719-820-58	DIODE	1SS177		
D512	8-719-935-39	DIODE	HZS6B1LTD		
D513	8-719-933-61	DIODE	HZS9C3L		
D514	8-719-820-58	DIODE	1SS177		
D515	8-719-820-58	DIODE	1SS177		
D516	8-719-933-33	DIODE	HZS6A1L		
D518	8-719-820-58	DIODE	1SS177		
D519	8-719-983-68	DIODE	MTZJ-T-72-3.9A		
D520	8-719-983-68	DIODE	MTZJ-T-72-3.9A		
D907	8-719-109-89	DIODE	RD5.6ES-B2		
D908	8-719-109-89	DIODE	RD5.6ES-B2		
D954	8-719-109-85	DIODE	RD5.1ES-B2		
D971	8-719-109-93	DIODE	RD6.2ES-B2		
D972	8-719-109-89	DIODE	RD5.6ES-B2		
		< IC >			
IC501	8-759-176-34	IC	uPD75516GF-488-3B9		
IC502	8-759-518-87	IC	S-8052HNM-CR-S		
IC503	8-759-512-48	IC	XR-1092		
IC504	8-759-711-82	IC	NJM4580E		

Ref.No.	Part No.	Description			Remark
IC971	8-759-635-21	IC M5223FP			
		< COIL >			
L971-973					
	1-424-188-11	COIL, CHOKE	100uH		
		< TRANSISTOR >			
Q501	1-807-736-71	TRANSISTOR	2SD1664-Q-T100		
Q502	8-729-207-56	TRANSISTOR	RN1402		
Q503	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q504-507					
	8-729-207-56	TRANSISTOR	RN1402		
Q508	8-729-207-68	TRANSISTOR	RN2402		
Q509	1-807-736-71	TRANSISTOR	2SD1664-Q-T100		
Q510	8-729-931-14	TRANSISTOR	2SD1858-Q-TV2		
Q511	8-729-207-68	TRANSISTOR	RN2402		
Q971	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q972	8-729-207-56	TRANSISTOR	RN1402		
Q973	8-729-205-97	TRANSISTOR	2SC3668-Y		
Q974	8-729-205-97	TRANSISTOR	2SC3668-Y		
		< RESISTOR >			
R125	1-259-476-11	CARBON	100K	5%	1/6W
R225	1-259-476-11	CARBON	100K	5%	1/6W
R501	1-216-222-00	METAL CHIP	10K	5%	1/8W
R502	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R503	1-216-049-00	METAL CHIP	1K	5%	1/10W
R504	1-216-049-00	METAL CHIP	1K	5%	1/10W
R505	1-216-099-00	METAL CHIP	120K	5%	1/10W
R506	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R507	1-216-045-00	METAL CHIP	680	5%	1/10W
R508	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R509	1-216-081-00	METAL CHIP	22K	5%	1/10W
R510-512					
	1-259-428-11	CARBON	1K	5%	1/6W
R513	1-247-713-11	METAL GLAZE	1K	5%	1/4W
R514	1-216-049-11	METAL CHIP	1K	5%	1/10W
R515	1-216-049-11	METAL CHIP	1K	5%	1/10W
R516	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R517	1-216-081-00	METAL CHIP	22K	5%	1/10W
R518	1-216-085-00	METAL CHIP	33K	5%	1/10W
R519	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R520	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R521	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R522	1-216-073-00	METAL CHIP	10K	5%	1/10W
R523	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R524	1-216-204-00	METAL CHIP	1.8K	5%	1/8W
R525	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R526	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R527	1-216-022-00	METAL CHIP	75	5%	1/10W
R528	1-216-022-00	METAL CHIP	75	5%	1/10W
R529	1-216-073-00	METAL CHIP	10K	5%	1/10W
R530	1-216-081-00	METAL CHIP	22K	5%	1/10W
R531	1-216-206-00	METAL CHIP	2.2K	5%	1/10W
R532	1-216-089-00	METAL CHIP	47K	5%	1/10W
R533	1-216-073-00	METAL CHIP	10K	5%	1/10W
R534	1-216-097-00	METAL CHIP	100K	5%	1/10W
R535	1-216-246-00	METAL CHIP	100K	5%	1/8W
R536	1-216-097-00	METAL CHIP	100K	5%	1/10W
R537	1-259-452-11	CARBON	10K	5%	1/6W
R903	1-216-629-11	METAL CHIP	120	0.5%	1/8W
R904	1-216-629-11	METAL CHIP	120	0.5%	1/8W
R956	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R971	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R972	1-216-037-00	METAL CHIP	330	5%	1/10W
R974	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R975	1-216-049-00	METAL CHIP	1K	5%	1/10W
R976	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R977	1-216-085-00	METAL CHIP	33K	5%	1/10W
R978	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R979	1-216-081-00	METAL CHIP	22K	5%	1/10W
		< TRANSFORMER >			
T971	1-448-886-11	TRANSFORMER, DC-DC CONVERTER			
		< THERMISTOR >			
TH971	1-800-070-99	THERMISTOR TH-4700			
		< CRYSTAL >			
X501	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			

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Mobile Electronics Company

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XE-744

SONY
SERVICE MANUAL

US Model
Canadian Model
E Model

CORRECTION-1

Correct your service manual as shown below.

☛ : **indicates corrected portion.**

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
20	1	3-388-574-12	BUTTON (D) (DSPL)	3-388-575-12 ☛	BUTTON (D) (DSPL)
	3	3-388-574-12	BUTTON (E) (+/−)	3-388-576-12 ☛	BUTTON (E) (+/−)

(SPM-95021)

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Mobile Electronics Company

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